

INTERIOR ACOUSTICS COMPOSITION





COMPOSITION®

Composition® is an acoustic wall covering available in a range of colours. Typically applied in vertical drops like wallpaper, Composition creates a surface that is pin and velcro receptive. Composition is a durable and flexible polyester wall covering that replaces the need to paint, and is easily maintained to look amazing for a long time.

Beyond all that, it creates incredible learning environments by reducing and managing the reverberation in the room, resulting in a much more peaceful space for students to learn. But it isn't just students that benefit, Composition is great for any working space.

And because not all spaces are the same we've given you creative freedom. We can cut Composition to any shape, creating something as unique as each one of us.

COMPOSITION®

APPLICATIONS

- Decorative and functional acoustic wallcovering for education, retail and commercial interiors
- Minimise noise in interior environments
- Hook-and-loop surface for education and commercial sectors
- Protective layer for plasterboard
- Alternative finishing to paint

SPECIFICATION

(Wall) treatment shall be Autex Composition® from non-woven needle-punched polyester containing not less than 60% recycled material as manufactured by Autex www.autexindustries.com

Roll 10-12mm (nom.) depth, colour (L), sound absorption: Class D, NRC 0.40, Fire ratings: ISO 9705: Classification: Group 1-S, AS ISO 9705 – 2003: Classification: Group 1, EN 13501-1:2007+A1:2009: Classification: B - s1, d0

Install as per Autex recommendations.

If Composition is to be specified for use other than as a wallcovering, please seek guidance from your Autex Account Manager.





ABSORPTION COEFFICIENT ACCORDING TO ISO 354

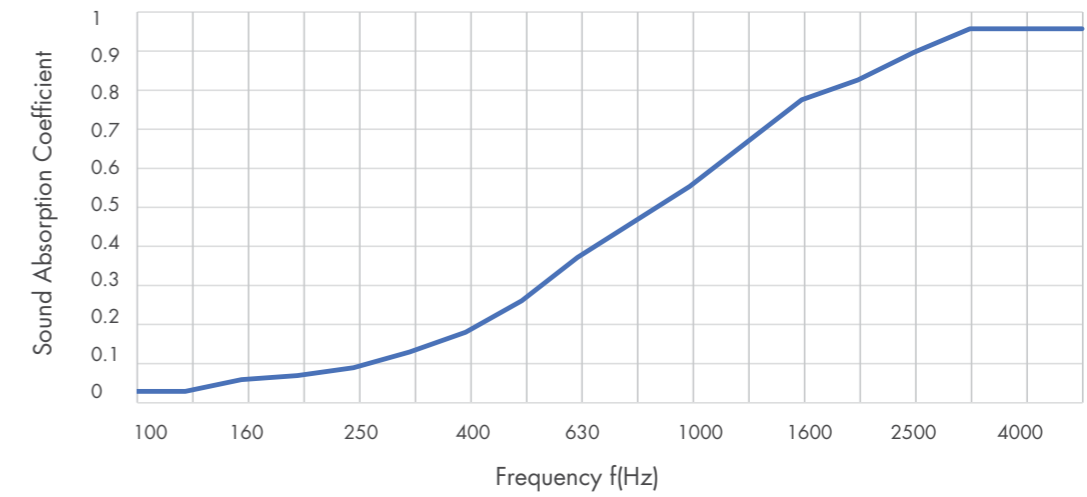


Table presents the practical sound absorption coefficients as according to ISO 11654. Graph presents third octave sound absorption coefficients (According to ISO 354 Measurement of sound absorption in a reverberation room.) The NRC rating is determined as the arithmetic average of the absorption coefficients measured by one-third octave bands centred on 250 Hz, 500 Hz, 1000 Hz and 2000 Hz, and rounded to the nearest 0.05.

Frequency (Hz)	University of Auckland Test Report Number	125	250	500	1000	2000	4000	NRC
Composition® 10-12mm	T0814-2b	0.05	0.10	0.25	0.55	0.80	0.95	0.40

PRODUCT SPECIFICATIONS

Product Name	Composition®	
Composition	100% Polyester Fibre (PET)	
Roll Dimensions	1.22m	25m
Tolerance	(+5mm)	(+10mm)
Thickness	10-12mm	
Weight	1680gsm	

INSTALLATION

Install as per Autex 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 Autex account manager.

ACOUSTIC PERFORMANCE

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

LIGHT REFLECTANCE VALUES BY COLOUR

Civic	57	Avocado	11
Citrus	49	Blush	10
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
Fawn	20	Cinder	5
Clay	20	Bark	5
Granny Smith	20	Octane	5
Stonewash	19	Phantom	4
Simba	18	Theatre	3
Brilliant Orange	15	Stately	3
Spearmint	13	Charcoal	3
Calypto	13	Lightsout	3
Electric Blue	12	Ink	3
Koala	12	Noir	1

LRVs were measured in accordance with BS 8493:2008+A1:2010

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
(SMOGR_{ARC}): <100m²/s²
Assessed using methodology AS ISO 9705:2003 in accordance with AS 5637.1:2015, as required by BCA Specification C1.10-4
Fl 4894 dated 6th June, 2012 and FAR 4055-2 dated 8th October, 2013

EN13501-1:2007

B - s1, d0
Report 189053 dated 7th December, 2009

ASTM E84 - 14

Class A, FS:5 - SD:25
Report RJ3297-9R1 dated 17th March, 2015

VOC EMISSIONS

Autex polyester has been tested for chemical emissions in accordance with ASTM D5116 and is considered as a low VOC product.

VOC concentration: 0.009 mg/m³ (7 days)

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 10mm plasterboard, the system can resist a 9-joule impact. This is equivalent to the impact of a 0.5kg object dropped from a 2m height. A small indentation might be observed when subjected to an impact equivalent to the impact of a 0.5kg 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 10mm plasterboard, the system can resist a 70-joule impact. This is equivalent to the impact of a 50kg object dropped from a 150mm 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)

THERMAL PERFORMANCE

10-12mm R0.22 (@15°C)

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.

Custom printed Composition requires the services of a specialist cleaning company. Refer to the Composition Cleaning 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.

ENVIRONMENTAL

Autex is committed to best practice through our ISO 9001 and ISO 14001 certified Quality and Environmental Management Systems.

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

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

SERVICE

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





COMPOSITION® COLOUR OPTIONS

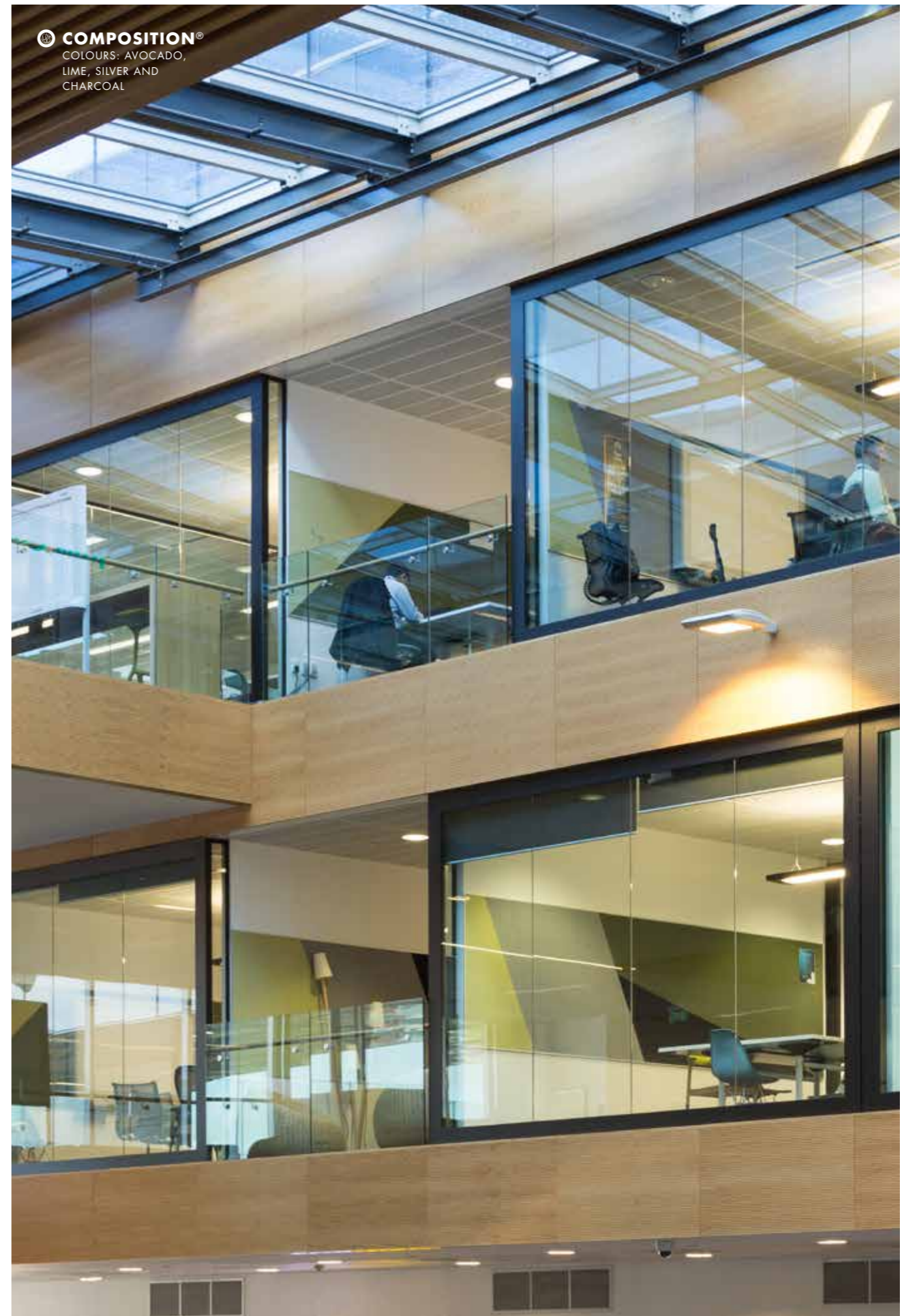
RASPBERRY	BRILLIANT ORANGE	CITRUS	CINDER
BLAZING RED	SIMBA	CLAY	BARK
THEATRE	CHILLI RED	VINTAGE	KOALA
PHANTOM	CALYPSO	MYST	SILVER
BLUSH	FAWN	SANZ	CIVIC

To order a colour sample, please contact your Autex account manager
or visit www.autexindustries.com

COMPOSITION® COLOUR OPTIONS

WASABI	LIME	JADE	GRANNY SMITH
AVOCADO	SPEARMINT	SAGE	AZURE
EMERALD	OCTANE	SAPPHIRE	STONEWASH
STATELY	ATLANTIS	ELECTRIC BLUE	PORCELAIN
INK	LIGHTSOUT	CHARCOAL	NOIR

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CARING FOR THE ENVIRONMENT

Autex products are manufactured using 100% polyester fibre and aim to contain a minimum of 60% previously recycled fibre (from PET plastics). They are designed to be recycled at the end of their life too. We use Life Cycle Analysis (LCA) to understand the environmental impacts of our products and set targets to reduce these. All our products have been verified as low VOC and are free from harmful chemical binders making them great for indoor environmental quality (IEQ).

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 and LCARate Gold certified.

Composition® is also 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 its environmental performance and contribute to sustainable development.



Declare.



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