



**Product
overview**

3D Tiles are lightweight, sculptural acoustic tiles designed for interior wall application. Made from 100% polyester fibre, 3D Tiles are moulded to form abstract, three-dimensional shapes that provide acoustic absorption across the mid to high frequency range.

Specification

Wall treatment shall be 3D Tiles made from thermally moulded, needle punched, felted polyester material containing not less than 55% recycled material as manufactured by Autex www.autexglobal.com

Tile (S-5.__), colour (__), sound absorption Class C, NRC 0.75 – if backed with Autex AAB: Class A, NRC 0.90.

Fire rating ISO 9705: Classification: Group 1-S, EN13501-1:2007+A1:2009: B - s1, d2.

Tiles to be supplied with 1 standard tile clip per tile. Install as per 3D Tile Install Instructions.

**Colour
options**



Porcelain



Stonewash



Blush



Stately



Charcoal



Noir



Silver



Civic



Bark



Fawn



Avocado



Granny Smith



Brilliant Orange



Blazing Red



Electric Blue



Product specifications

Product name 3D Tiles S-5.26, S-5.28, S-5.32, S-5.34, S-5.50, S-5.53
Composition 100% polyester fibre (PET)

Installation

Install as per Autex Acoustics recommendations. Install instructions are included in each pack or available on the website.

Product name	S-5.26	S-5.28	S-5.32	S-5.34	S-5.50	S-5.53
Tile dimensions	575 mm x 575 mm	575 mm x 575 mm	575 mm x 575 mm	575 mm x 575 mm	288 mm x 575 mm	575 mm x 575 mm
Tile tolerance	(+0.5 mm) (+0.5 mm)	(+0.5 mm) (+0.5 mm)	(+0.5 mm) (+0.5 mm)	(+0.5 mm) (+0.5 mm)	(+0.5mm) (+0.5mm)	(+0.5 mm) (+0.5 mm)
Depth	80 mm	58 mm	50 mm	58 mm	58 mm	60 mm
Depth tolerance	(+0.5 mm)	(+0.5 mm)	(+0.5 mm)	(+0.5 mm)	(+0.5 mm)	(+0.5 mm)
Weight	1680 gsm	1680 gsm	1680 gsm	1680 gsm	1680 gsm	1680 gsm

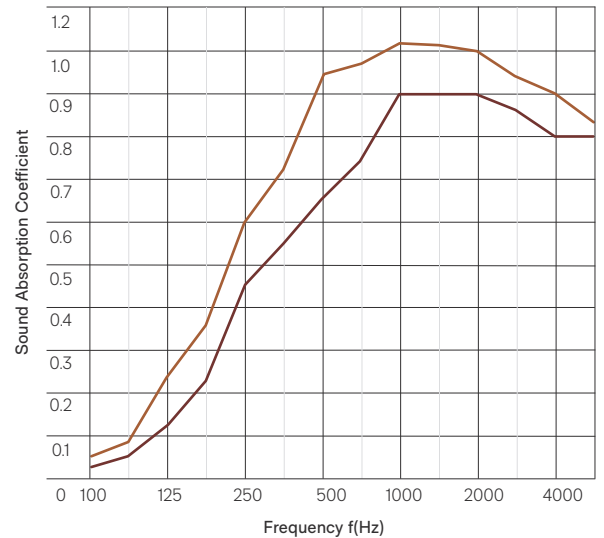
Acoustic performance

3D Tiles S-5.26, S-5.28, S-5.32, S-5.34, S-5.50 and S-5.53 are specifically designed to reduce and control reverberated noise and echo in building interiors. To increase acoustic performance, use Autex AAB 35-25 polyester acoustic insulation as an infill. Refer to www.autexglobal.com.

	Frequency (Hz)	125	250	500	1000	2000	4000	NRC
●	3D Tiles (without AAB 35-25)	0.15	0.45	0.65	0.90	0.90	0.80	0.75
●	3D Tiles (with AAB 35-25)	0.25	0.60	0.95	1.05	1.00	0.90	0.90

The graph above presents third octave sound absorption coefficients in accordance with ISO 354 measurement of sound absorption in a reverberation room. The table below presents the practical sound absorption coefficients in accordance with ISO 11654. 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.

Absorption Coefficient According ISO 354
 University of Auckland Test Report Number
 3D Tiles without AAB 35-25 - Test No. T1012-3
 3D Tiles with AAB 35-25 - Test No. T1012-5



Product specifications

Product name 3D Tiles S-5.37, S-5.46
Composition 100% polyester fibre (PET)

Installation

Install as per Autex Acoustics recommendations. Install instructions are included in each pack or available on the website.

Product name	S-5.37	S-5.46
Tile dimensions	575 mm x 575 mm	498 mm x 575 mm
Tile tolerance	(+0.5 mm) (+0.5 mm)	(+0.5 mm) (+0.5 mm)
Depth	140 mm	120 mm
Depth tolerance	(+0.5 mm)	(+0.5 mm)
Weight	1680 gsm	1680 gsm



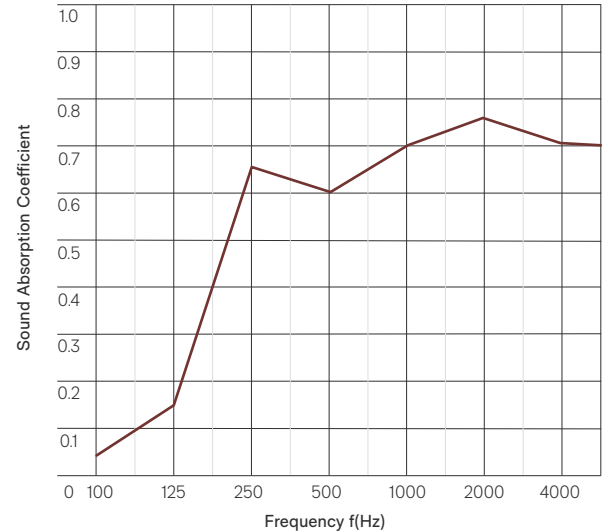
Acoustic performance

3D Tiles S-5.37 and S-5.46 are specifically designed to reduce and control reverberated noise and echo in building interiors.

Frequency (Hz)	125	250	500	1000	2000	4000	NRC
● 3D Tiles S-5.37, S-5.46	0.15	0.65	0.60	0.70	0.75	0.70	0.65

The graph above presents third octave sound absorption coefficients in accordance with ISO 354 measurement of sound absorption in a reverberation room. The table below presents the practical sound absorption coefficients in accordance with ISO 11654. 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.

Absorption Coefficient According ISO 354
University of Auckland Test Report Number
3D Tiles S-5.37, S-5.46 - Test No. T1316-4



Product specifications

Fire ratings

3D Tiles is a product made from Workstation as the base material. Workstation 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 FAR 4055

EN13501-1:2007+A1:2009

(6mm Workstation)
B - s1, d2
Report WF 336913

ASTM E84 - 14

(12mm Workstation)
Class A, FS:0 - SD:10
Report RJ5297

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/m³ (7 days).

Water vapour sorption

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

Microbial resistance

ASTM G21-15
Growth rating: 0 (No growth)
3D Tiles do not promote the growth of moulds and mildew.

Colour fastness to light

3D Tiles are suitable for indoor use only.

Lightfastness is dependent on use and exposure. 3D Tiles have 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)

Pattern repeat

Non-woven. No pattern repeat, but the product has a 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.

Fabric care

Blot spills from fabric quickly. Wipe with a damp cloth. Avoid rubbing and using 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 the solution.

Custom printed 3D Tiles require the services of a specialist cleaning company. Refer to the 3D Tiles Care and Maintenance Guide for more information.

Environmental

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

3D Tiles contain a minimum of 55% previously recycled polyester fibre (from PET bottle-flake). Off-cuts and manufacturing waste are re-used or recycled wherever possible.

3D Tiles are manufactured from 100% polyester fibre and do 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 3D Tiles or any other Autex Acoustics product, please contact your account manager or visit our website.



Light reflectance values by colour

3D Tiles are suitable for indoor use only. LRVs were measured in accordance with BS 8493:2008+A1:2010

Civic	57	Avocado	11
Silver	23	Blush	10
Porcelain	22	Blazing Red	8
Fawn	20	Bark	5
Granny Smith	20	Stately	3
Stonewash	19	Charcoal	3
Brilliant Orange	15	Bark	1
Electric Blue	12		

Caring for the environment

3D Tiles are manufactured using 100% polyester fibre and contain a minimum of 55% 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.

3D Tiles are 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.



- **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**
19350 Van Ness Avenue
Torrance, CA 90501
United States of America
Phone +1 424 203 1813

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