



**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](http://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
<b>Tile dimensions</b>	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
<b>Tile tolerance</b>	(+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)
<b>Depth</b>	80 mm	58 mm	50 mm	58 mm	58 mm	60 mm
<b>Depth tolerance</b>	(+0.5 mm)	(+0.5 mm)	(+0.5 mm)	(+0.5 mm)	(+0.5 mm)	(+0.5 mm)
<b>Weight</b>	1680 gsm	1680 gsm	1680 gsm	1680 gsm	1680 gsm	1680 gsm

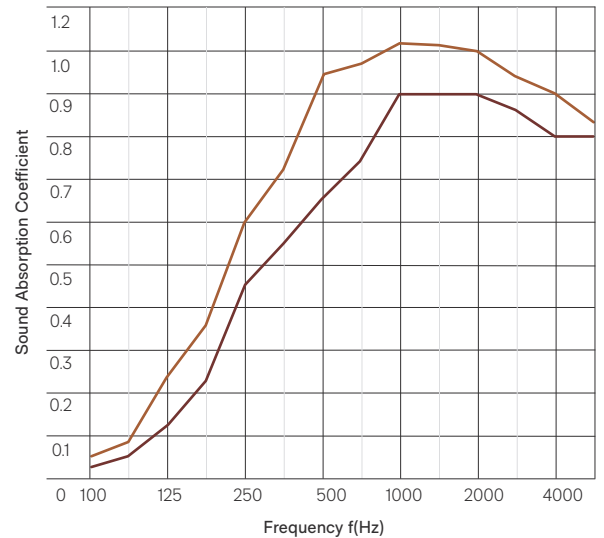
## Acoustic performance

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](http://www.autexglobal.com).

	Frequency (Hz)	125	250	500	1000	2000	4000	NRC
●	<b>3D Tiles</b> (without AAB 35-25)	0.15	0.45	0.65	0.90	0.90	0.80	0.75
●	<b>3D Tiles</b> (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
<b>Tile dimensions</b>	575 mm x 575 mm	498 mm x 575 mm
<b>Tile tolerance</b>	(+0.5 mm) (+0.5 mm)	(+0.5 mm) (+0.5 mm)
<b>Depth</b>	140 mm	120 mm
<b>Depth tolerance</b>	(+0.5 mm)	(+0.5 mm)
<b>Weight</b>	1680 gsm	1680 gsm



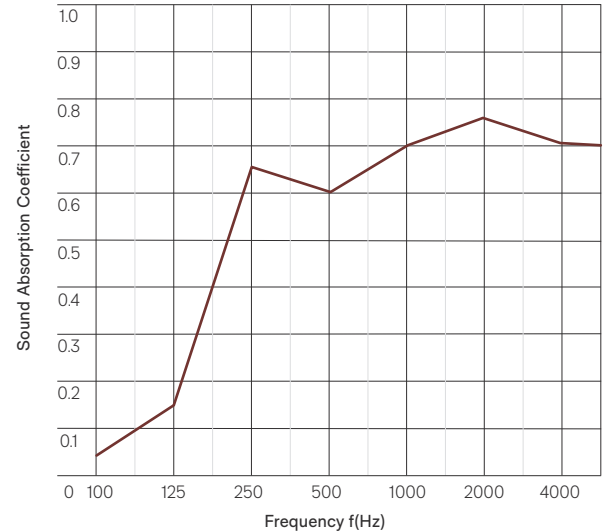
## Acoustic performance

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:

<5.0m<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<sup>2</sup>

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/m<sup>3</sup> (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.



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