



**Product  
overview**

3D Tiles are lightweight, sculptural acoustic tiles designed for interior wall application. Made from 100% polyester fiber, 3D Tiles are molded 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 molded, needle punched, felted polyester material containing not less than 55% recycled material as manufactured by Autex [www.autexinglobal.com](http://www.autexinglobal.com)

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

Tile (S-5-\_\_), color (\_\_\_), sound absorption class C, NRC 0.65-0.75 depending on design. Fire rating ASTM E-84: Class A FS:0 - SD:10.

**Color  
options**



Porcelain



Bark



Stonewash



Fawn



Blush



Avocado



Stately



Granny Smith



Charcoal



Brilliant Orange



Noir



Blazing Red



Silver



Electric Blue



Civic



## 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 fiber (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>	22.6" x 22.6"	22.8" x 22.8"	22.8" x 22.8"	22.6" x 22.6"	11.3" x 22.5"	22.6" x 22.6"
<b>Tile tolerance</b>	(+0.02") (+0.02")	(+0.02") (+0.02")	(+0.02") (+0.02")	(+0.02") (+0.02")	(+0.02") (+0.02")	(+0.02") (+0.02")
<b>Depth</b>	3.15"	2.28"	1.96"	2.28"	3.15"	2.36"
<b>Depth tolerance</b>	(+0.0.2")	(+0.0.2")	(+0.0.2")	(+0.0.2")	(+0.0.2")	(+0.0.2")
<b>Weight</b>	5.51 oz/ft <sup>2</sup>	5.51 oz/ft <sup>2</sup>	5.51 oz/ft <sup>2</sup>	5.51 oz/ft <sup>2</sup>	5.51 oz/ft <sup>2</sup>	5.51 oz/ft <sup>2</sup>

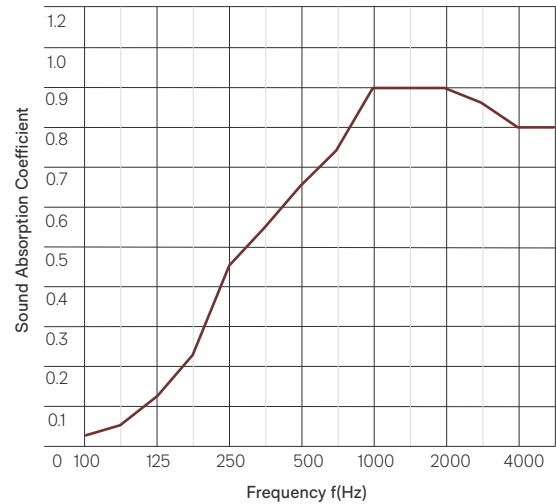
## Acoustic performance

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.

	Frequency (Hz)	125	250	500	1000	2000	4000	NRC
● 3D Tiles		0.15	0.45	0.65	0.90	0.90	0.80	0.75

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 - Test No. T1012-3



## Product specifications

**Product name** 3D Tiles S-5.37, S-5.46  
**Composition** 100% polyester fiber (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>	22.6" x 22.6"	19.6" x 22.6"
<b>Tile tolerance</b>	(+0.02") (+0.02")	(+0.02") (+0.02")
<b>Depth</b>	5.51"	4.49"
<b>Depth tolerance</b>	(+0.0.2")	(+0.0.2")
<b>Weight</b>	5.51 oz/ft <sup>2</sup>	5.51 oz/ft <sup>2</sup>



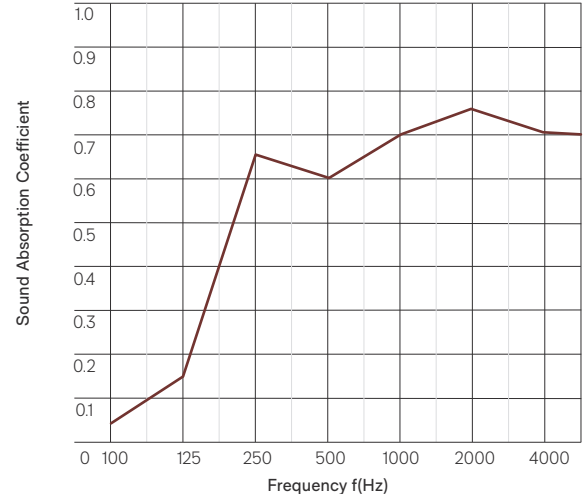
## Acoustic performance

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: <math><5.0\text{m}^2/\text{s}</math>  
As required by NZBC C/VM2

#### AS ISO 9705 - 2003

Classification: Group 1  
(SMOGR<sub>Arc</sub>): <math><100\text{m}^2/\text{s}^2</math>  
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

(12mm Workstation)  
B - s1, d2  
Report WF 336913

#### ASTM E84 - 14

(12mm Workstation)  
Class A, FS:0 - SD:10  
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 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 molds and mildew.

### Color 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)

### Color 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 fiber 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 fiber (from PET bottle-flake). Off-cuts and manufacturing waste are re-used or recycled wherever possible.

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



## Light reflectance values by color

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 fiber and contain a minimum of 55% 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.

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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