



3D Tiles are manufactured by Autex Industries Ltd and Autex Australia Pty Ltd under an ISO 9001 and ISO 14001 certified Quality Environmental Management Systems. The product is guaranteed to be free from manufacturing defects and carries a Manufacturer's Guarantee for a period of no less than ten years to meet all of the performance properties stated within this guarantee.

**Specification**

**Product name** 3D Tiles  
**Description** 100% polyester thermally moulded, needle punched tile

		Metric
Tile dimensions	Classic	575 mm x 575 mm
	S5.46	498 mm x 575 mm
	S5-50	288 mm x 575 mm
Tile tolerance		(+/- 0.5 mm) (+/- 0.5 mm)
Thickness		Tiles range from 25 mm to 140 mm. Refer to Data Sheet for specific thickness values.
Depth tolerance		(+/- 0.5 mm)
Weight		1680 gsm

**Physical description/  
properties**

Boiling point:	N/A
Melting point:	250°C
Vapour pressure:	N/A
Specific gravity:	Polyester 1.38
Flash point:	N/A
Explosive limits:	N/A
Solubility in water	Not soluble
Alkalinity:	pH 7.8
Relative vapour density:	N/A



## Acoustic performance

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

Minimum Noise Reduction Coefficient (NRC): 0.75

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
● 3D Tiles S-5.37, S-5.46	0.15	0.65	0.60	0.70	0.75	0.70	0.65

## Service

For further information about 3D Tiles or any other Autex Acoustics product, please contact your account manager or visit our website.

## Care and maintenance

Maintain in accordance with the Care and Maintenance Guide available for this product.

## Product specifications

### Composition

100% polyester fibre from polyethylene terephthalate (PET). 3D Tiles contains a minimum of 55% recycled polyester fibre.

### Suitable applications

Decorative and functional acoustic tile for retail, education, hospitality and commercial interiors.

### Fire ratings

3D Tiles have 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

56371:2015 as required by BCA

Specification C1.10-4

FAR 4055

### EN13501-1:2007+A1:2009

(6 mm 3D Tiles)

B - s1, d2

Report WF 336913

### ASTM E84 - 14

(12 mm 3D Tiles)

Class A, FS:0 - SD:10

Report RJ3297

### VOC emissions

Autex Acoustics 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 adsorped 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. Light fastness is dependent on use and exposure. 3D Tiles 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)

### 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 reused 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.



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