Autex Acoustics®

3D Tiles Manufacturer's Guarantee

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 49% 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^2/s
As required by NZBC C/VM2

AS ISO 9705 - 2003
Classification: Group 1
(SMOGRArc): <100m^2/s2
Assessed using methodology AS ISO 9705 - 2003 in accordance with AS 5637.1:2015, as required by NCC Specification 7: Fire Hazard properties: S7C4
FI 4974
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^3 (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.

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