



3D Tiles are manufactured by Autex Industries Ltd and Autex Australia Pty Ltd under an ISO 9001 accredited Quality Management System. 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	575mm x 575mm
	S5.46	498mm x 575mm
	S5-50	288mm x 575mm
Tile Tolerance		(+/-0.5mm) (+/-0.5mm)
Thickness		Tiles range from 25mm to 140mm. Refer to datasheet for specific thickness values.
Depth Tolerance		(+/- 0.5mm)
Weight		1680gsm

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 Tile is specifically designed to reduce and control reverberated (echo) noise 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



Acoustic Performance

3D Tile is specifically designed to reduce and control reverberated (echo) noise in building interiors.

Minimum Noise Reduction Coefficient (NRC): 0.75

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

Service

For further information about 3D Tiles, Workstation or any other Autex product, please contact your Autex 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 is a value-added product made from Autex 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 (SMOGR_{arc}): <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 dated 19th March 2014

ASTM E84 - 14

(12mm Workstation)
Class A, FS:0 - SD:10
Report RJ3297-10 dated 13th June 2014

VOC Emissions

Autex polyester has been tested for chemical emissions in accordance with ASTM D5116 and is considered as 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. 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 Workstation requires the services of a specialist cleaning company. Refer to the 3D Tiles Care and Maintenance Guide for more information.

Finish

Non-woven. No pattern repeat but fabric 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.



Environmental

Autex is committed to best practice through our ISO 9001 and ISO 14001 certified Quality and Environmental Management Systems.

Autex 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.

Autex 3D Tiles are manufactured from 100% polyester fibres and do not contain formaldehyde binders. Autex polyester fibres support safer indoor air quality and will not become a potential airborne pollutant.

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