

INTERIOR ACOUSTICS

3D TILES

MANUFACTURERS GUARANTEE

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.

Product Name 3D Tile

Description 100% polyester thermally moulded, needle punched tile

AUTEX®	METRIC	IMPERIAL
Tile Dimensions	Classic: 575mm x 575mm	22.6" x 22.6"
	S5:50: 575mm x 287.5mm	22.6" x 11.3"
Thickness	Tiles range from 25mm to 140mm. Refer to individual product Datasheets for specific thickness values.	
Thickness	12mm	
Weight	1680gsm	

COMPOSITION

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

SUITABLE APPLICATIONS

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

COLOR 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)

FIRE RATINGS

3D Tiles is a value added product made from Autex Workstation. The base material 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
FI 4974 dated 16th September, 2012
FAR 4055-2 dated 8th October, 2013

EN13501-1:2007+A1:2009

B - s1, d2
Report WF 336913 dated 19th March, 2014 (6mm Workstation)

ASTM E-84-14

Class A, FS:0 - SD:10
RJ3297-10R1 dated 17th March, 2015 (12mm Workstation)

FINISH

Non-woven. No pattern repeat but fabric 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.

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)

ACOUSTIC PERFORMANCE

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

Minimum Noise Reduction Coefficient (NRC): 0.75

Acoustic testing to ISO 354. University of Auckland Testing Service

Frequency (Hz)	125	250	500	1000	2000	4000	NRC
α _p without AAB	0.15	0.45	0.65	0.90	0.90	0.80	0.75
α _p with AAB*	0.25	0.60	0.85	1.00	0.95	0.80	0.90

*Results with the addition of Autex AAB 35-25 polyester absorber inserts in back of tiles.

PHYSICAL DESCRIPTION / PROPERTIES

Boiling Point: N/A
Melting Point: 250°C | 482°F
Vapor 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 Vapor Density: N/A

CARE AND MAINTENANCE

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