



3D Ceiling Tiles are manufactured by Autex Industries 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 Ceiling Tiles
Description 100% polyester thermally moulded, needle punched tile

	Metric
Tile dimensions	595 mm x 595 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 Ceiling Tiles are specifically designed to reduce and control reverberated noise and echo in building interiors.

Frequency (Hz)	125	250	500	1000	2000	4000	NRC
● 3D Ceiling Tiles without AAB 35-25	0.15	0.45	0.65	0.90	0.90	0.80	0.75
● 3D Ceiling Tiles with AAB 35-25	0.25	0.60	0.95	1.05	1.00	0.90	0.90
● 3D Ceiling Tiles S-5.37 142 mm	0.15	0.65	0.60	0.70	0.75	0.70	0.65



Service

For further information about 3D Ceiling 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 Ceiling Tiles contain a minimum of 55% recycled polyester fibre.

Suitable applications

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

Fire ratings

3D Ceiling Tiles have 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 5637:2015, as required by BCA Specification C110-4 FAR 4055

EN13501-1:2007

(6 mm 3D Ceiling Tiles)
B - s1, d2
Report WF 336913

ASTM E-84-14

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/m³ (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 Ceiling Tiles do not promote the growth of moulds and mildew.

Colour fastness to light

3D Ceiling Tiles are suitable for indoor use only. Lightfastness is dependent on use and exposure. 3D Ceiling Tiles have 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 Ceiling Tiles the services of a specialist cleaning company. Refer to the 3D Ceiling 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 Ceiling 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.

3D Ceiling 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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