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 molded, needle punched tile

	Imperial
Tile dimensions	23.75" x 23.75"
Tile tolerance	*(+/-0.2") (+/-0.2")*
Thickness	Tiles range from 1" to 5 1/2". Refer to Data Sheet for specific thickness values.
Depth tolerance	*(+/-0.2")*
Weight	1680 gsm

Physical description/ properties

Boiling point:	N/A
Melting point:	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

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	0.15	0.45	0.65	0.90	0.90	0.80	0.75

Frequency (Hz)	125	250	500	1000	2000	4000	NRC
3D Ceiling Tiles S-5.37 5.57"	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 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 fiber from polyethylene terephthalate (PET). 3D Ceiling Tiles contain a minimum of 55% recycled polyester fiber.

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 (SMOGRArc): <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
(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 vapor sorption
ASTM C1104 / C1104M-13a
Test conditions: 49°C, 95%RH
Water vapor 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 molds and mildew.

Color 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)

Color 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 fiber 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 require the services of a specialist cleaning company. Refer to the 3D Ceiling Tiles Care and Maintenance Guide for more information.

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