



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	595mm x 595mm
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 Ceiling Tiles are specifically designed to reduce and control reverberated (echo) noise 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

### Acoustic Performance

3D Ceiling Tiles are specifically designed to reduce and control reverberated (echo) noise in building interiors.

Frequency (Hz)	125	250	500	1000	2000	4000	NRC
● 3D Ceiling Tiles S-5.37 142mm	0.15	0.65	0.60	0.70	0.75	0.70	0.65

\*These designs don't typically support the AAB application.



## Service

For further information about 3D Ceiling 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 Ceiling Tiles contain a minimum of 80% recycled polyester fibre.

### Suitable applications

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

### Fire Ratings

3D Ceiling 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:  
<5.0m<sup>2</sup>/s  
As required by NZBC C/VM2

#### AS ISO 9705 - 2003

Classification: Group 1  
(SMOGR<sub>ARC</sub>): <100m<sup>2</sup>/s<sup>2</sup>  
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

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

### ASTM E-84-14

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/m<sup>3</sup> (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 Workstation requires the services of a specialist cleaning company. Refer to the 3D Ceiling 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 Frontier contains a minimum of 45% recycled polyester fibre (from PET bottle-flake). Off-cuts and manufacturing waste is re-used or recycled wherever possible.

Autex Frontier is 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.

#### ● Autex Industries Ltd

702-718 Rosebank Rd  
Private Bag 19988  
Avondale 1746, Auckland  
New Zealand  
Freephone 0800 428 839  
Phone +64 9 828 9179  
Fax +64 9 828 5810

#### ● Autex Australia Pty Ltd

166 Bamfield Road  
PO Box 5099  
West Heidelberg, Melbourne  
VIC 3081, Australia  
Freephone 1800 678 160  
Phone +61 3 9457 6700  
Fax +61 3 9457 1020

#### ● Autex Acoustics Ltd

Unit J4, Lowfields Way,  
Lowfields Business Park,  
Elland, West Yorkshire  
Hx5 9Da  
United Kingdom  
Phone +44 0 1422418899

#### ● Autex Acoustics LLC

19350 Van Ness Avenue  
Torrance, CA 90501  
United States of America  
Phone +1 424 203 1813