



**Autex
Acoustics®**

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3D Ceiling Tiles

Data Sheet

Product overview

A side-step from the traditional acoustic ceiling tile, 3D Ceiling Tiles are made from 100% polyester fibre and moulded to form abstract, three-dimensional shapes.

The 3D Ceiling Tile is designed to be direct fixed or fit within a standard ceiling grid; lightweight and semi-rigid for easy installation.

Specification






(Ceiling) treatment shall be 3D Ceiling Tiles from thermally moulded, felted polyester material containing not less than 55% recycled material as manufactured by Autex.

Tile (S-5-__), colour (__), sound absorption: Class C, NRC 0.75. Fire rating ISO 9705:

Classification: Group 1-S, EN13501-1:2007+A1:2009: B - s1, d2, ASTM E-84-14 Class A, FS:0 - SD:10

Install as per Autex Acoustics recommendations.

Colour options

 Porcelain	 Bark
 Stonewash	 Fawn
 Blush	 Avocado
 Stately	 Granny Smith
 Charcoal	 Brilliant Orange
 Noir	 Blazing Red
 Silver	 Electric Blue
 Civic	



Product specifications

Product name 3D Ceiling Tiles S-5.26, S-5.28, S-5.34, S-5.53
Composition 100% polyester fibre (PET)
Required grid size 600 mm x 600 mm with 24 mm tee

Installation

Designed to fit a 600 mm x 600 mm grid with a 24 mm tee. Install as per Autex Acoustics recommendations. Install instructions are included in each pack or available on the website.

Product name	S-5.26	S-5.28	S-5.34	S-5.53
Tile dimensions	595 mm x 595 mm	595 mm x 595 mm	595 mm x 595 mm	595 mm x 595 mm
Tile tolerance	(+0.5 mm) (+0.5 mm)	(+0.5 mm) (+0.5 mm)	(+0.5 mm) (+0.5 mm)	(+0.5 mm) (+0.5 mm)
Depth	83 mm	62 mm	64 mm	63 mm
Depth tolerance	(+0.5 mm)	(+0.5 mm)	(+0.5 mm)	(+0.5 mm)
Weight	1680 gsm	1680 gsm	1680 gsm	1680 gsm

Acoustic performance

3D Ceiling Tiles are specifically designed to reduce and control reverberated noise and echo in building interiors. To increase acoustic performance, use Autex AAB 35-25 polyester acoustic insulation as an infill.

Sound Absorption Coefficients according to ISO 354.

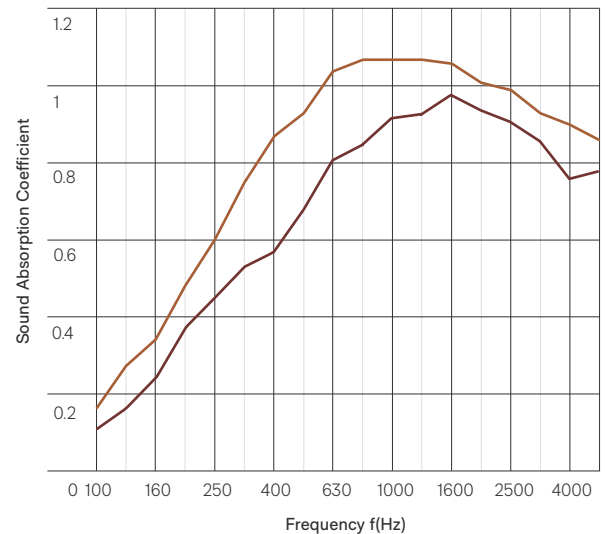
University of Auckland Testing Service

3D Ceiling Tiles without AAB 35-25 - Test No: T1012-3

3D Ceiling Tiles with AAB 35-25 - Test No: T1012-5

	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

The graph above presents third octave sound absorption coefficients in accordance with ISO 354 measurement of sound absorption in a reverberation room. The table below presents the practical sound absorption coefficients in accordance with ISO 11654. The NRC rating is determined as the arithmetic average of the absorption coefficients measured by one-third octave bands centred on 250 Hz, 500 Hz, 1000 Hz and 2000 Hz and rounded to the nearest 0.05.



Product specifications

Product name 3D Ceiling Tiles S-5.37
Composition 100% polyester fibre (PET)
Required grid size 600 mm x 600 mm with 24 mm tee

Installation

Designed to fit a 600 mm x 600 mm grid with a 24 mm tee. Install as per Autex Acoustics recommendations. Install instructions are included in each pack or available on the website.

Product name	S-5.37
Tile dimensions	595 mm x 595 mm
Tile tolerance	(+0.5 mm) (+0.5 mm)
Depth	142 mm
Depth tolerance	(+0.5 mm)
Weight	1680 gsm



Acoustic performance

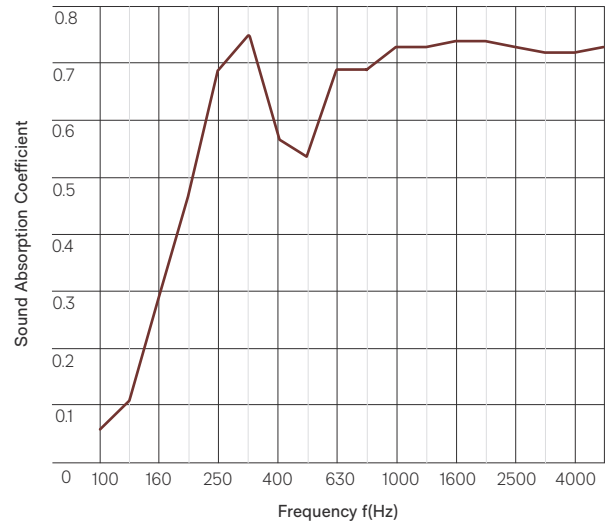
3D Ceiling Tiles are specifically designed to reduce and control reverberated noise and echo in building interiors. To increase acoustic performance, use Autex AAB 35-25 polyester acoustic insulation as an infill.

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

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

The graph above presents third octave sound absorption coefficients in accordance with ISO 354 measurement of sound absorption in a reverberation room. The table below presents the practical sound absorption coefficients in accordance with ISO 11654. The NRC rating is determined as the arithmetic average of the absorption coefficients measured by one-third octave bands centred on 250 Hz, 500 Hz, 1000 Hz and 2000 Hz and rounded to the nearest 0.05.

Sound Absorption Coefficients according to ISO 354.
University of Auckland Testing Service
3D Ceiling Tiles S-5.37 142 mm - Test No: T1316-4



Product specifications

Fire ratings

3D Ceiling Tiles is a product made from 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 (SMOGRArc): <100m²/s²

Assessed using methodology

AS ISO 9705:2003

in accordance with AS 5637:2015,

as required by BCA Specification C1:10-4

FAR 4055

EN13501-1:2007

(6mm Workstation)

B - s1, d2

Report WF 336913

ASTM E-84-14

Class A, FS:0 - SD:10

Report RJ3297

VOC emissions

Autex 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

adsorbed 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 require 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.

Service

For further information about 3D Ceiling Tiles or any other Autex Acoustics product, please contact your account manager or visit our website.



Light reflectance values by colour

3D Ceiling Tiles are suitable for indoor use only. LRVs were measured in accordance with BS 8493:2008+A1:2010

Civic	57	Avocado	11
Silver	23	Blush	10
Porcelain	22	Blazing Red	8
Fawn	20	Bark	5
Granny Smith	20	Stately	3
Stonewash	19	Charcoal	3
Brilliant Orange	15	Bark	1
Electric Blue	12		

Caring for the environment

3D Ceiling Tiles are manufactured using 100% polyester fibre and contain a minimum of 55% recycled fibre (from PET plastics). Our products are designed to be recycled at the end of their life too.

We have continual improvement programmes in which we implement a range of initiatives to mitigate the environmental 'hotspots' that we have identified. Our products are GreenRate Level A, Health Product Declaration (HPD), and CDHP Standard certified.

3D Ceiling Tiles are DeclareSM certified to be Red List free and can be used in Living Building Challenge projects. Autex has a high functioning Environmental Management System (ISO 14001) to enhance our environmental performance and contribute to sustainable development.



Distributed by



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