



Grid Ceiling Tiles are manufactured by Autex Industries Ltd and Autex Australia Pty Ltd under an ISO 9001 and ISO 14001 certified Quality and 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	Grid Ceiling Tiles
Description	100% polyester lightweight ceiling grid tile

	Metric
Tile dimensions	595 mm x 595 mm 1195 mm x 595 mm
Tile tolerance	(+/- 0.5 mm) x (+/- 0.5 mm)
Depth	100 mm
Depth tolerance	(+/- 0.5 mm)

Acoustic performance

Grid Ceiling Tiles help reduce and control reverberated noise and echo in building interiors. Extensive acoustic testing of arrayed assemblies has been undertaken in accordance with ISO 354 to inform the performance of grid tiles.

Style	Overall depth	Depth below grid	Spacing	NRC uncapped	NRC capped
Frame	100 mm	75 mm	600 sq	0.35	0.60
Linear	100 mm	85 mm	120 mm	0.35	0.60
Hatch	100 mm	85 mm	200 mm	0.60	0.70
Angle	100 mm	85 mm	140 mm	0.30	0.60

Style	Overall depth	Depth below grid	Spacing	NRC uncapped	NRC capped
Louvre	100 mm	85 mm	120 mm	0.35	0.65
Vault	100 mm	75 mm	-	0.80	-
Vertex	100 mm	85 mm	-	0.25	0.60

NRC ratings determined by testing in accordance with ISO 354 and calculated according to ASTM C423. Full acoustic reports available upon request.

Service

For further information about Grid 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.

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

Product specifications

Composition

100% polyester fibre from polyethylene terephthalate (PET). Grid Ceiling Tiles contain a minimum of 80% previously recycled polyester fibre.

Suitable applications

Ceilings.

Fire ratings

Grid Ceiling Tiles are made from Cube as the base material. Cube 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 5637:2015, as required by NCC Specification 7: Fire Hazard properties: S7C4 FI 4974 FAR 4055

BS EN 13501-1:2018

Ceiling applications

Classification: B-s2,d0

(Cube 12 mm)

Tested using BS EN ISO 11925-2:2020 and BS EN 13823:2020 and classified in accordance with BS EN 13501-1:2018, as required by BS EN 13964:2014 EUI-20-000268-B

ASTM E-84-15a

Class A, FS:0 - SD:45

(Cube 12 mm)

RJ4479-2

TVOC emissions

Autex Acoustics polyester has been tested for Total Volatile Organic Compounds in accordance with CPDH v1.2 and is considered a low VOC product.

VOC concentration:

0.066 mg/m³ (14 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

Impact resistance

ISO 7892:1988

Microbial resistance

ASTM G21-15

Growth rating: 0 (No growth)

Grid Ceiling Tiles do not promote the growth of moulds and mildew.

Colour fastness to light

Grid Ceiling Tiles are suitable for indoor use only.

Light fastness is dependent on use and exposure. Grid 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)

Batch variation

Non-woven. Product may vary from samples and batch to batch due to fibre blending and layup, which is an inherent feature of this product.

Fabric care

Blot spills from fabric quickly. Wipe with a damp cloth.

Avoid rubbing and 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 solution.

Custom printed Grid Ceiling Tiles require the services of a specialist cleaning company. Refer to the Autex Acoustics Care and Maintenance Guide for more information.

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