Autex Acoustics®

Grid Ceiling Tiles

Manufacturer's Guarantee

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	50 mm - 150 mm Varies across the range
Depth tolerance	*(+/- 0.5 mm)*

Acoustic performance

Grid Ceiling Tiles are specifically designed to reduce and control reverberated noise and echo in building interiors. Cap absorption is based on corrugated panel with E400 mounting method test report number T2215-16. Vault data is based on 12 mm Cube™ fitted inside a standard ceiling grid, relevant test report numbers are T2215-18, T1108-1 and T1632-2.

Style	Overall depth	Depth below grid	Spacing	NRC uncapped	NRC capped
Frame small	50 mm	25 mm	600 sq	0.25	0.60
Medium	50 mm	75 mm	600 sq	0.35	0.60
Large	150 mm	125 mm	600 sq	0.50	0.70
Linear small	50 mm	25 mm	60 mm	0.45	0.65
Medium	100 mm	75 mm	120 mm	0.35	0.60
Large	125 mm	100 mm	150 mm	0.35	0.60
Hatch small	60 mm	30 mm	120 mm	0.60	0.70
Medium	100 mm	75 mm	200 mm	0.60	0.70
Large	150 mm	125 mm	300 mm	0.70	0.75
Angle small	50 mm	25 mm	83 mm	0.30	0.60
Medium	100 mm	75 mm	167 mm	0.30	0.60
Large	150 mm	125 mm	206 mm	0.40	0.65

Style	Overall depth	Depth below grid	Spacing	NRC uncapped	NRC capped
Louvre small	50 mm	26 mm	60 mm	0.55	0.70
Medium	100 mm	52 mm	20 mm	0.35	0.65
Large	125 mm	74 mm	150 mm	0.50	0.70
Vault small	-	41 mm	-	0.80	-
Medium	-	75 mm	-	0.80	-
Large	-	161 mm	-	0.85	-
Vertex small	50 mm	25 mm	-	0.10	0.60
Medium	100 mm	75 mm	-	0.15	0.60
Large	150 mm	125 mm	-	0.25	0.60

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 60% 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
(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
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

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

Impact resistance
ISO 7892:1988

Hard body impact
There is no surface damage or penetration to Grid Ceiling Tiles when subjected to hard body impacts. When adhered to 10 mm plasterboard, the system can resist a 9 joule impact.

This is equivalent to the impact of a 0.5 kg object dropped from a 2 m height. A small indentation might be observed when subjected to an impact equivalent to the impact of a 0.5 kg object dropped from a 0.5 m height.

Soft body impact
There is no surface damage or penetration to Grid Ceiling Tiles when subjected to soft body impacts. When adhered to 10 mm plasterboard, the system can resist a 70 joule impact. This is equivalent to the impact of a 50 kg object dropped from a 150 mm height.

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)

Pattern repeat
Non-woven. No pattern repeat but product has 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 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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