Autex Acoustics®

Grid Ceiling Tiles Data Sheet

Product overview

Grid Ceiling Tiles are an acoustic solution designed to elevate traditional ceiling grid systems. Highly adaptable, they can be configured to create many different aesthetics, be it a subtle addition, or an eye-catching feature. Choose from a range of seven adaptable styles with vast options for configuration.

Sustainable material

- Carbon neutral product
- Zero carbon manufacturing
- Recycled content
  - >60% recycled material
- Low VOC and CDPH compliant
  - <0.092 mg/m^3 (7 days)
- Zero waste manufacturing initiative
- Sustainable supply chain and anti-modern slavery

Environmental certifications

- EPD – compliant with ISO 14025 and EN 15804
- Declare – Red List free (third party verified)
- ISO 14001 Certified Environmental Management
- Health Product Declaration
- CDPH Standard

Certifying your green building

Autex Acoustics® products meet criteria for WELL, LEED, Green Star, and BREEAM building rating systems, helping you achieve certification for your project. For support and guidance on available rating system points please visit autexglobal.com, or speak with your Autex Acoustics account manager.

Specification

(Ceiling) treatment shall be Grid Ceiling Tiles from thermally bonded high density polyester containing not less than 60% recycled material as manufactured by Autex autexglobal.com

Grid Ceiling Tiles 23 3/4" x 23 3/4" x 4" (nom) depth, color (_), sound absorption 1/2": Class D-B, NRC 0.15 - 0.80.

Fire rating ASTM E-84-15a: Class A, FS:0 - SD:45, ISO 9705: Classification: Group 1-S, AS ISO 9705 – 2003 Classification: Group 1, 1/2" BS EN 13501-1:2018: B - s2, d0.

Product specifications

Product name	Grid Ceiling Tiles
Composition	100% polyester fiber
Tile dimensions	23 3/4" x 23 3/4" | 47 1/4" x 23 3/4"
Tile Tolerance	(+/- 1/16") x (+/- 1/16")
Depth	4"
Depth Tolerance	(+/- 1/16")

Installation
Install as per Autex Acoustics® recommendations. Install instructions are included in each pack or available on the website. In situations where product is being installed near fire protection systems (e.g. sprinklers or fire alarms) relevant building codes, standards and design rules must be adhered to. Please consult the project engineer and relevant expert such as a fire protection engineer. If Grid Ceiling Tiles are to be specified for use other than as a ceiling tile, please seek guidance from your Autex Acoustics account manager.

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.

Styles	Overall depth	Depth below grid	Spacing	NRC uncapped	NRC capped
Frame	4"	3"	2'	0.35	0.60
Linear	4"	3 5/16"	4 3/4"	0.35	0.60
Hatch	4"	3 5/16"	7 7/8"	0.60	0.70
Angle	4"	3 5/16"	5 1/2"	0.30	0.60

Styles	Overall depth	Depth below grid	Spacing	NRC uncapped	NRC capped
Louvre	4"	3 5/16"	4 3/4"	0.35	0.65
Vault	4"	3"	-	0.80	-
Vertex	4"	3 5/16"	-	0.15	0.60

Unless otherwise stated, values and ratings have been determined via calculation and not to be considered as a guarantee of performance.

Light reflectance values by color

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

Acros	40
Beehive	33
Canyon	19
Caspian	6
Cavalier	12
Empire	5
Falling Water	34
Flatiron	24
Gherkin	8
Highland	19
Muralla	9

Opera	49
Parthenon	33
Pavilion	80
Petronas	2
Pinnacle	3
Sargazo	4
Savoye	46
Senado	44
Terrace	24
Tree House	3

Product specifications

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: <5.0m^2/s
As required by NZBC C/VM2

AS ISO 9705 - 2003
Classification: Group 1
(SMOGRArc): <100m^2/s2
Assessed using methodology AS ISO 9705 - 2003 in accordance with AS 5637.1:2015, 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 1/2")
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 1/2")
RJ4479-2

Water vapor sorption

ASTM C1104 / C1104M-13a
Test conditions: 120°F, 95%RH
Water vapor 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 molds and mildew.

Color 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)

Color 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 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 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.

Service

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

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  - >60% recycled material
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  - <0.092 mg/m^3 (7 days)
- Zero waste manufacturing initiative
- Sustainable supply chain and anti-modern slavery

Environmental certifications

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Specification

(Ceiling) treatment shall be Grid Ceiling Tiles from thermally bonded high density polyester containing not less than 60% recycled material as manufactured by Autex www.autexglobal.com

Grid Ceiling Tiles 595 x 595 x (_)mm (nom) depth, colour (_), sound absorption 12 mm: Class D-B, NRC 0.15 - 0.85.

Fire rating ASTM E-84-15a: Class A, FS:0 - SD:45, ISO 9705: Classification: Group 1-S, AS ISO 9705 – 2003 Classification: Group 1, 12 mm BS EN 13501-1:2018: B - s2, d0.

Product specifications

Product name	Grid Ceiling Tiles
Composition	100% polyester fibre
Tile dimensions	595 mm x 595 mm 1195 mm x 595 mm
Tile Tolerance	(+/- 0.5 mm) x (+/- 0.5 mm)
Depth	Varies across the range - 50 mm - 150 mm. Please refer to the Grid Ceiling Tiles Path to Specify document.
Depth Tolerance	(+/- 0.5 mm)

Installation

Install as per Autex Acoustics recommendations. Install instructions are included in each pack or available on the website. In situations where product is being installed near fire protection systems (e.g. sprinklers or fire alarms) relevant building codes, standards and design rules must be adhered to. Please consult the project engineer and relevant expert such as a fire protection engineer. If Grid Ceiling Tiles are to be specified for use other than as a ceiling tile, please seek guidance from your Autex Acoustics account manager.

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 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

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Product specifications

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

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Classification: Group 1
(SMOGRArc): <100m2/s2
Assessed using methodology AS ISO 9705 - 2003 in accordance with AS 5637.1:2015, 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

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)

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.

Service

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Light reflectance values by colour

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LRVs were measured in accordance with BS 8493:2008+A1:2010

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