Autex Acoustics®

Mirage™ Data Sheet

Product overview

Mirage™ is a textured panel range designed to create stunning acoustic environments. The six curated designs bring depth, elegance, and tactile sophistication to any interior design. Using Cube™ base panels, you have the flexibility to choose from all Cube colours.

Sustainable material

- Carbon neutral product and manufacturing
- Zero waste manufacturing initiative
- Recycled content - >80% recycled material
- Low VOC and CDPH compliant - <0.092 mg/m³ (7 days)
- 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 autexacoustics.com.au, or speak with your Autex Acoustics specification manager.

Specification

(Wall/Ceiling) treatment shall be Mirage™ from thermally bonded high-density polyester containing not less than 80% recycled material as manufactured by Autex Acoustics autexacoustics.com.au

Panel 1200 x 2400 x (_)mm (nom.) depth, or 1200 x 2700 x (_)mm (nom.) depth, colour (_), sound absorption 12 mm: Class D, NRC 0.45 – with 24 mm air gap: Class C, NRC 0.70. 24 mm: Class D, NRC 0.70 – with 24 mm air gap: Class C, NRC 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, 12 mm BS EN 13501-1:2018: B - s2, d0, 24 mm BS EN 13501-1:2018: B - s2, d2.

If Mirage is to be specified for use other than as a ceiling or wallcovering please seek guidance from your Autex Acoustics specification manager.

Product specifications

Product name	Mirage™	
Composition	100% polyester fibre	
Panel dimensions	2400 mm x 1200 mm	
	2700 mm x 1200 mm	
Tolerance	(+/- 1 mm) x (+/- 1 mm)	
Thickness	12 mm	24 mm
Tolerance	(+/- 6%)	(+/- 6%)

Thermal performance
(Internally tested by Autex Lab)

Cube 12 mm	R0.30 (@23°C)
Cube 24 mm	R0.60 (@23°C)

Installation
Install as per Autex Acoustics recommendations. Install instructions are included in each pack or available on the website.

Product specifications

Fire ratings

Mirage is 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 NCC Specification 7: Fire Hazard properties:
S7C4
FI 4974
FAR 4055

BS EN 13501-1:2018
Wall 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 15102:2007 + A1:2011. EUI-20-000268-A

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

Wall applications
Classification: B-s2,d2
(Cube™ 24 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 15102:2007 + A1:2011.
EUI-21-000135-G-A

Ceiling applications
Classification: B-s2,d2
(Cube™ 24 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-21-000135-G-B

ASTM E-84-15a
Class A, FS:0 - SD:45
(Cube™ 1/2")
RJ4479-2
Class A, FS:0 - SD:65
(Cube™ 1")
RJ4479-1

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

When adhered to 10 mm plasterboard, the system can resist a 9 joule impact without significant damage to Mirage. 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 a 0.5 kg object dropped from a 0.5 m height.

Soft body impact

There is no surface damage or penetration to Mirage 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)
Cube does not promote the growth of moulds and mildew.

Colour fastness to light

Cube is suitable for indoor use only. Light fastness is dependent on use and exposure. Cube has 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 from panel to panel, however 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. Refer to the Autex Acoustics Care and Maintenance Guide for more information.

Service

For further information about Mirage or any other Autex Acoustics product, please contact your specification manager or visit our website.

Acoustic performance

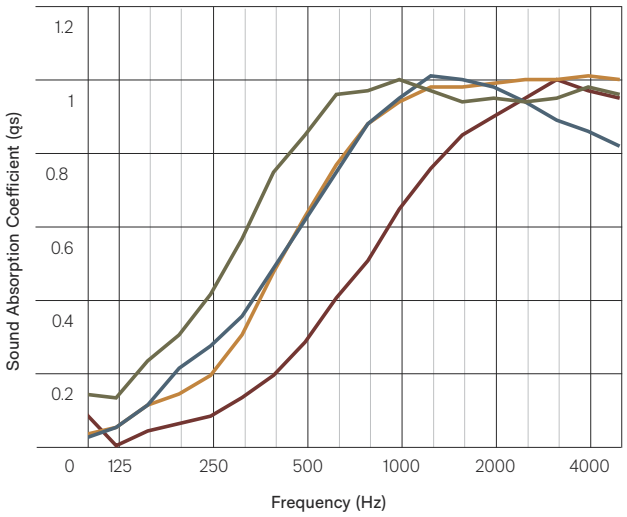
Mirage is specifically designed to reduce and control reverberated and echo noise in building interiors. Mirage is made from Cube as the base material.

	Frequency (Hz)	125	250	500	1000	2000	4000	NRC
●	12 mm Cube	0.05	0.10	0.30	0.65	0.90	0.95	0.45
●	12 mm Cube (with 25 mm air gap)	0.05	0.30	0.60	0.95	0.95	0.85	0.70
●	24 mm Cube	0.05	0.20	0.60	0.90	1.00	1.00	0.70
●	24 mm Cube (with 25 mm air gap)	0.15	0.40	0.85	0.95	0.95	0.95	0.80

Graph presents third octave sound absorption coefficients (according to ISO 354 measurement of sound absorption in a reverberation room). 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.

Absorption Coefficient According to ISO 354
University of Auckland Testing Service

Cube (12 mm) - Test No. T0712-3
Cube (12 mm with 25 mm air gap) - Test No. T0712-6
Cube (24 mm) - Test No. T1961-1
Cube (24 mm with 25 mm air gap) - Test No. T1326-2



Light reflectance values by colour

Cube is 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
Herald	11
Highland	19
Muralla	9
Opera	49
Parthenon	33
Pavilion	80
Petronas	2
Pinnacle	3
Rosada	45
Sargazo	4
Savoye	46
Senado	44
Terrace	24
Tree House	3

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