



Autex
Acoustics®

Mirage™

Manufacturer's Guarantee

Mirage™ is 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 Mirage™

Description 100% polyester lightweight semi-rigid panel

Metric

Panel Dimensions 1200 mm x 2400 mm

1200 mm x 2700 mm

Tolerance (+/- 1 mm) x (+/- 1 mm)

Thickness 12 mm 24 mm

Tolerance (+/- 6%) (+/- 6%)

**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

Acoustic performance

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

Minimum Noise Reduction Coefficient 0.45

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



Service	For further information about Mirage 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.
Product specifications	
Composition 100% polyester fibre from polyethylene terephthalate (PET). Mirage contains a minimum of 80% previously recycled polyester fibre.	Ceiling applications Classification: B-s1,d0 (Cube 12 mm) Tested according to BS EN ISO 11925-2:2020 and BS EN 13823:2020 + A1:2022 and classified in accordance with BS EN 13501-1:2018, as required by BS EN 15102:2019. 7191361939-MEC25/03-JV
Suitable applications Partitions, wallcovering with acoustic properties.	Ceiling applications Classification: B-s2,d0 (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. 7191343095-MEC24/03-JV
Fire ratings Mirage is made from Cube as the base material. Cube has been evaluated using the following test methods	ASTM E-84-15a Class A, FS:0 - SD:45 (Cube 1/2") R14479-2 Class A, FS:0 - SD:65 (Cube 1") R14479-1
ISO 9705: 1993 Classification: Group 1-S Smoke production rate: <5.0m²/s As required by NZBC C/VM2	Thermal performance Cube 12 mm R0.30 (@23°C) Cube 24 mm R0.60 (@23°C)
AS ISO 9705 - 2003 Classification: Group 1 (SMOGRArc): <100m²/s 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	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)
BS EN 13501-1:2018 Wall applications Classification: B-s1,d0 (Cube 12 mm) Tested according to BS EN ISO 11925-2:2020 and BS EN 13823:2020 + A1:2022 and classified in accordance with BS EN 13501-1:2018, as required by BS EN 15102:2019. 7191361939-MEC25/03-JV	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
Wall applications Classification: B-s2,d0 (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. 7191343095-MEC24/03-JV	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.	
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.	

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