

$Mirage^{TM}$

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.

Product name	Mirage™								
Description	100% polyester	r lightweight sem	i-rigid	panel					
			Metric						
Panel Dimensions Tolerance Thickness 12 m Tolerance			1200 mm x 2400 mm						
		1200 mm x 2700 mm							
			(+/- 1 mm) x (+/- 1 mm)						
		12 mi	12 mm		24 mm				
		(+/- 6%)							
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						
reverberated noise echo in building int Mirage is made froi	and teriors. m Cube	Frequency (Hz) 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
	Panel Dimension Tolerance Thickness Tolerance Boiling point: Melting point: Vapour pressure Specific gravity: Flash point: Explosive limits: Solubility in wate Alkalinity: Relative vapour of the point	Panel Dimensions Tolerance Thickness Tolerance Boiling point: Melting point: Vapour pressure: Specific gravity: Flash point: Explosive limits: Solubility in water: Alkalinity: Relative vapour density: 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	Panel Dimensions Tolerance Thickness 12 m Tolerance Boiling point: Melting point: Vapour pressure: Specific gravity: Flash point: Explosive limits: Solubility in water: Alkalinity: Relative vapour density: 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 12 mm Cube (with 25 mm)	Panel Dimensions 12 Tolerance Thickness 12 mm Tolerance Boiling point: Vapour pressure: Vapour pressure: N/A Specific gravity: Polyes Flash point: N/A Explosive limits: N/A Solubility in water: Alkalinity: Relative vapour density: 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 12 mm Cube (with 25 mm) 0.05	Panel Dimensions 1200 mm 1200 mm Tolerance (+/- 1 mm Thickness 12 mm Tolerance (+/- 1 mm Tolerance (+/- 1 mm Tolerance (+/- 1 mm Tolerance (+ 1 mm Tolerance (Panel Dimensions 1200 mm x 240 1200 mm x 270 Tolerance (+/- 1 mm) x (+/- Thickness 12 mm Tolerance (+/- 6%) Boiling point: N/A Melting point: Vapour pressure: N/A Specific gravity: Flash point: Explosive limits: N/A Solubility in water: Alkalinity: Alkalinity: PH 7.8 Relative vapour density: 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 Minumum Noise Reduction 12 mm Cube With 25 mm 005 0.30 0.60	Panel Dimensions	Panel Dimensions	Panel Dimensions

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 specification 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.

Suitable applications

Partitions, wallcovering with acoustic properties.

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 563712015, 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 11925-22020 and BS EN 138232020 and classified in accordance with BS EN 13501-12018, 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 11925-22020 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 11925-22020 and BS EN 1382332020 and classified in accordance with BS EN 13501-12018, as required by BS EN 151022007 + A12011. EUI-21-000135-G-A

Ceiling applications Classification: B-s2,d2

(Cube 24 mm)

Tested using BS EN ISO 11925-22020 and BS EN IS8232020 and classified in accordance with BS EN 13501-12018, 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") R!4479-2 Class A, FS:0 - SD:65 (Cube 1") R!4479-1

Thermal performance

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

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

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.

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