Autex Acoustics®

Verve™ Contoured Panels

Manufacturer's Guarantee

Verve™ Contoured Panels 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 Verve™ Contoured Panels

Description 100% polyester lightweight semi-rigid panel

	Metric	
Panel dimensions	2680 mm x 1170 mm	
Tolerance	*(+/- 1 mm) x (+/- 1 mm)*	
Thickness	12 mm	21 mm
Tolerance	*(+/- 6%)*	*(+/- 6%)*
Weight	2400 gsm	3600 gsm

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

Verve is specifically designed to reduce and control reverberation and echo noise in building interiors.

Frequency (Hz)	125	250	500	1000	2000	4000	NRC
12 mm Verve	0.00	0.05	0.10	0.40	0.70	0.80	0.30
12 mm Verve (with 25 mm air gap)	0.10	0.20	0.50	0.85	0.95	0.85	0.65
21 mm Verve	0.05	0.20	0.55	0.90	1.00	0.90	0.65
21 mm Verve (with 25 mm air gap)	0.15	0.40	0.80	1.00	0.95	0.90	0.80

Product specifications

Composition
100% polyester fibre from polyethylene terephthalate (PET). Verve contains a minimum of 80% previously recycled polyester.

Suitable applications
Partitions, wallcovering with acoustic properties.

Fire Ratings
Verve 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
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 4055Wall applications

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,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

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

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

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 Verve 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 Verve 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
Verve is suitable for indoor use only. Light fastness is dependent on use and exposure. Verve 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
Selected designs have a pattern repeat, all designs have a 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 Verve requires the services of a specialist cleaning company. Refer to the Autex Acoustics Care and Maintenance Guide for more information.

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