



Groove 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 Groove
Description 100% polyester lightweight semi-rigid panel

	Metric	
Panel dimensions	47.25" x 110"	
<i>Tolerance</i>	(+0.2") (+0.4")	
Thickness	1/2"	1"
<i>Tolerance</i>	(+/- 6%)	(+/- 6%)

For Duet Groove panels that have a layer of velour Vertiface laminated to the face, the stated nominal thickness will increase by 1/8".

**Physical description/
properties**

Boiling point:	N/A
Melting point:	482°F
Vapor 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 vapor density:	N/A

Acoustic performance

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

Minimum Noise Reduction Coefficient 0.45

Frequency (Hz)	125	250	500	1000	2000	4000	NRC
● 1/2" Cube	0.05	0.10	0.30	0.65	0.90	0.95	0.45
● 1/2" Cube (with 1" air gap)	0.05	0.30	0.60	0.95	0.95	0.85	0.70
● 1" Cube	0.05	0.20	0.60	0.90	1.00	1.00	0.70
● 1" Cube (with 1" air gap)	0.15	0.40	0.85	0.95	0.95	0.95	0.80



Service

For further information about Groove or any other Autex Acoustics® product, please contact your Autex Acoustics 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 fiber from polyethylene terephthalate (PET). Cube contains a minimum of 60% previously recycled polyester fiber.

Suitable applications

Pinboards, partitions, wallcovering with acoustic properties. Accepts pins and staples.

Fire ratings

Groove 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
(SMOGR_{ARC}): <100m²/s²

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

BS EN 13501-1:2018

Wall 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 15102:2007 + A1:2011.

EUI-20-000268-A

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

Wall applications

Classification: B-s2,d2
(Cube 1")

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 1")

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

Thermal performance

Groove 1/2" R0.41 (@59°F)
Groove 1" R0.82 (@59°F)

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 vapor sorption

ASTM C1104 / C1104M-13a
Test conditions: 49°C, 95%RH
Water vapor 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 Groove 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 Groove 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)
Groove does not promote the growth of molds and mildew.

Color fastness to light

Groove is suitable for indoor use only. Light fastness is dependent on use and exposure. Groove has 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)

Pattern repeat

Non-woven. No pattern repeat but product has directional grain. 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 Groove requires the services of a specialist cleaning company. Refer to the Autex Acoustics Care and Maintenance Guide for more information.

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