



Product overview

Groove is a semi-rigid acoustic panel, router cut with a series of precise, angular designs that bend and distort light. Available in 12 mm and 24 mm thicknesses, Groove panels are lightweight—made from 100% polyester fibre. Choose a single colour for a tone-on-tone effect, or combine two colours with Duet to create a two-tone effect.

Sustainable material

- Carbon neutral product
- Zero carbon manufacturing
- Recycled content - >60% recycled material
- Low VOC and CDPH compliant - <0.092 mg/m³ (7 days)
- Zero waste manufacturing initiative
- 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 autexglobal.com, or speak with your Autex Acoustics account manager.

Specification

(Wall/Ceiling) treatment shall be Groove from thermally bonded high density polyester containing not less than 60% recycled material as manufactured by Autex Acoustics autexglobal.com

Panel 1220 x 2440 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 Groove is to be specified for use other than as a ceiling or wallcovering, please seek guidance from your Autex Acoustics account manager.



Product specifications

Product name	Groove
Composition	100% polyester fibre
Panel dimensions	1220 mm x 2440 mm
Tolerance	(+ 5 mm) x (+ 10 mm)
Thickness	12 mm 24 mm
Tolerance	(+/- 6%) (+/- 6%)

For Duet Groove panels that have a layer of velour Vertiface laminated to the face, the stated nominal thickness will increase by 3 mm.

Thermal performance

(Internally tested by Autex Lab)

Groove 12 mm	R0.41 (@15°C)
Groove 24 mm	R0.82 (@15°C)

Installation

Install as per Autex Acoustics recommendations. Install instructions are included in each pack, or available on the website. In situations where product is being installed near fire protection systems (e.g. sprinklers or fire alarms) relevant building codes, standards and design rules must be adhered to. Please consult the project engineer and relevant expert such as a fire protection engineer. If Groove is to be specified for use other than as a wallcovering, please seek guidance from your Autex Acoustics account manager.

Acoustic performance

Groove is specifically designed to reduce and control reverberated and echo noise in building interiors. Groove 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

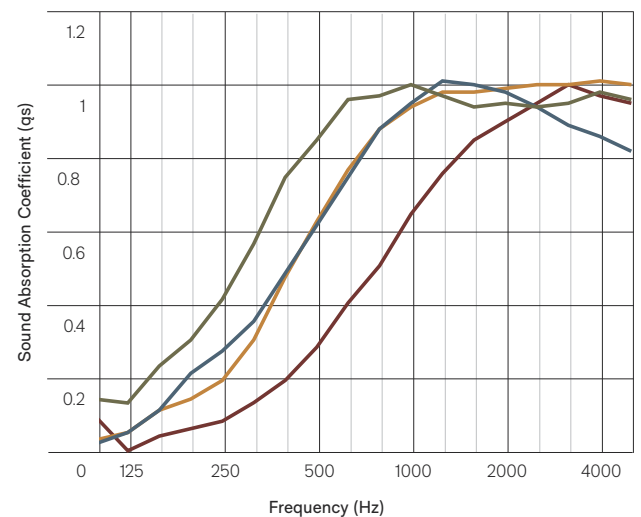
University of Auckland Testing Service

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

Groove is suitable for indoor use only. LRVs were measured in accordance with BS 8493:2008+A1:2010

Acros	40	Opera	49
Beehive	33	Parthenon	33
Canyon	19	Pavilion	80
Caspian	6	Petronas	2
Cavalier	12	Pinnacle	3
Empire	5	Sargazo	4
Falling Water	34	Savoye	46
Flatiron	24	Senado	44
Gherkin	8	Terrace	24
Highland	19	Tree House	3
Muralla	9		



Product specifications

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™ 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 adsorbed 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 moulds and mildew.

Colour 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)

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 but 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. Custom printed Groove requires the services of a specialist cleaning company. Refer to the Autex Acoustics Care and Maintenance Guide for more information.

Service

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

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