Autex Acoustics®

Cascade™   Manufacturer's Guarantee

The Cube™ component of Cascade™ Hanging Screens is manufactured by Autex Industries Ltd and Autex Australia Pty Ltd under an ISO 9001 and ISO 14001 certified Quality 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.

Expanding and folding panel patent

US Patent 10,184,249
GB Patent 2,547,530
NZ Patent app 727634
AU Patent app 2016273959

Specification

Product name   Cascade™

Description   100% polyester lightweight semi-rigid panel

	Metric
Panel dimensions	1200 mm x 2400 mm
Thickness	12 mm
Tolerance	*(+/- 6%)*

Physical description/ properties

Boiling point:	N/A
Melting point:	250ºC
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

Cascade is specifically designed to reduce and control reverberated noise and echo in building interiors. For a copy of the acoustic report please contact your account manager.

Frequency (Hz)	125	250	500	1000	2000	4000	Per unit
Cascade Static 12 mm	0.3	0.6	1.2	2.1	3.1	3.6	1.70
Cascade Folding/Expanding 12 mm	0.4	0.9	1.5	2.7	3.8	4.3	2.25

Service

For further information about Cascade 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). Cascade contains a minimum of 60% previously recycled polyester fibre.

Suitable applications
Fixed or suspended acoustic partition system.

Pack contents
1 x Cascade Screen
1 x Frontier™ Channel
2 x Ceiling Connectors
2 x 1 m Wires
2 x Autex Suspension Sliders
Note: Expanding Screens have double the pack contents.

Fire rating
Cascade is made from Cube™ as the base material. Cube has been evaluated using the following test methods:

ISO 9705
Classification: Group 1-S
Smoke production rate:
<5.0m2/s
As required by NZBC C/VM2

AS ISO 9705
Australian Group Number:
Group 1
(SMOGRARC): < 100m2/s2
Assessed using methodology AS ISO 9705 in accordance with AS5637.1:2015 as required by BCA Specification C1.10-4
FI 4974
FAR 4055

BS EN 13501-1
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

BS EN 1021-1
Result: Pass (Cigarette)
1362214.7

ASTM E-84-15a
Class A, FS:0 - SD:45
RJ4479-2

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.

Microbial resistance
ASTM G21-15
Growth rating: 0 (No growth)
Cascade does not promote the growth of mould and mildews.

Colour fastness to light
Cascade is suitable for indoor use only. Light fastness is dependent on use and exposure. Cascade 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 Cascade requires the services of a specialist cleaning company. Refer to the Cascade Care and Maintenance Guide for more information.