



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:	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**

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
<b>Cascade</b> ● Static 12 mm		0.3	0.6	1.2	2.1	3.1	3.6	1.70
<b>Cascade</b> ● 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:  
<5.0m<sup>2</sup>/s  
As required by NZBC C/VM2

### AS ISO 9705

Australian Group Number:  
Group 1  
(SMOGRARC): < 100m<sup>2</sup>/s<sup>2</sup>  
Assessed using methodology AS ISO 9705 in accordance with AS5637:2015 as required by BCA Specification C1.10-4  
FI 4974  
FAR 4055

### BS EN 13501-1

Ceiling applications  
Classification: B-s<sub>2</sub>d<sub>0</sub>  
(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/m<sup>3</sup> (7 days)

### 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.

### 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.

## Environmental

Autex Acoustics is committed to best practice through our ISO 14001 certified Environmental Management Systems.

Cascade contains a minimum of 60% previously recycled polyester fibre (from PET bottle-flake). Off-cuts and manufacturing waste are re-used or recycled wherever possible.

Cascade is manufactured from 100% polyester fibre and does not contain formaldehyde binders. Autex Acoustics polyester fibre supports safer indoor air quality and will not become a potential airborne pollutant.

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