



**Product  
overview**

As the name suggests, Cascade™ Hanging Screens are spatial and acoustic partitions that fall elegantly from the ceiling to the floor—fixed or suspended at either end via the Cascade suspension kit. The Cascade family includes three distinct styles—Static, Folding, and Expanding—each made from 100% polyester fibre with water-cut patterns. Lightweight yet sturdy, Cascade Hanging Screens are semi-permanent by nature; easy to install, uninstall and move around your space as required.

**Expanding and folding  
panel patent**

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

**Sustainable material**

- Carbon neutral product
- Zero carbon manufacturing
- Recycled content
  - >80% recycled material
- Low VOC and CDPH compliant
  - <0.092 mg/m<sup>3</sup> (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](http://autexglobal.com), or speak with your Autex Acoustics account manager.

**Product specifications**

<b>Product name</b>	Cascade™	<b>Thickness</b>	12 mm
<b>Composition</b>	100% polyester fibre; aluminium channel	<b>Installation</b>	Install as per Autex Acoustics recommendations. Install instructions are included in each pack or available on the website.
<b>Panel dimensions</b>	1200 mm x 2400 mm		
<b>Tolerance</b>	(+/- 6%)		



## Product specifications

### Fire rating

Cascade 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:  
<5.0m<sup>2</sup>/s  
As required by NZBC C/VM2

### AS ISO 9705 - 2003

Classification: Group 1  
(SMOGR<sub>ARC</sub>): <100m<sup>2</sup>/s<sup>2</sup>  
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

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

### 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.

### Service

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

## Acoustic performance

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

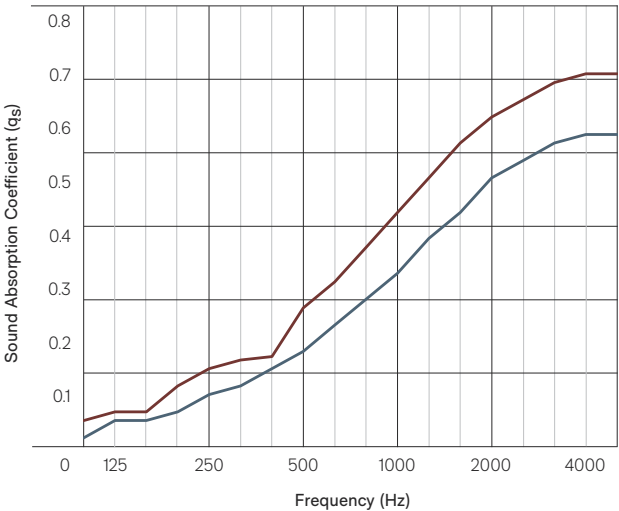
Frequency (Hz)	125	250	500	1000	2000	4000	Per Unit
<b>Cascade</b>							
● Static 12 mm	0.3	0.6	1.2	2.1	3.1	3.6	1.70
<b>Cascade</b>							
● Folding/Expanding 12 mm	0.4	0.9	1.5	2.7	3.8	4.3	2.25

All results are reported in metric sabin - per unit. Equivalent sound absorption area according to ISO 354 measurement of sound absorption in a reverberation room. Average absorption (sabins per unit) calculated at one-third octave bands centred on 250 Hz, 500 Hz, 1000 Hz, and 2000 Hz and rounded to the nearest 0.05.

### Equivalent absorption area according to ISO 354

#### University of Auckland Testing Service

Cascade™ Static 12 mm - Test No. T1730-3/4.  
Cascade™ Folding/Expanding 12 mm - Test No. T1730





**Light reflectance  
values by colour**

Cascade 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		

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