



**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

Colour options

 Sargazo	 Parthenon	 Bosco	 Petronas
 Rosada	 Opera	 Pinnacle	 Empire
 Ironbank	 Acros	 Muralla	 Flatiron
 Zenith	 Tree House	 Cavalier	 Savoye
 Beehive	 Gherkin	 Galaxy	
 Senado	 Lotus	 Falling Water	

Product specifications

Product name	Cascade™	Thickness	12 mm
Composition	100% polyester fibre; aluminium channel	Installation	Install as per Autex Acoustics recommendations. Install instructions are included in each pack or available on the website.
Panel dimensions	1200 mm x 2400 mm		
Tolerance	(+/- 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:
<5.0m²/s
As required by NZBC C/VM2

AS ISO 9705 - 2003

Australian Group Number:
Group 1
(SMOGRARC): <100m²/s²
Assessed using methodology AS ISO 9705:2003 in accordance with AS5637:2015 as required by BCA Specification C1.10-4
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

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.

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.

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
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

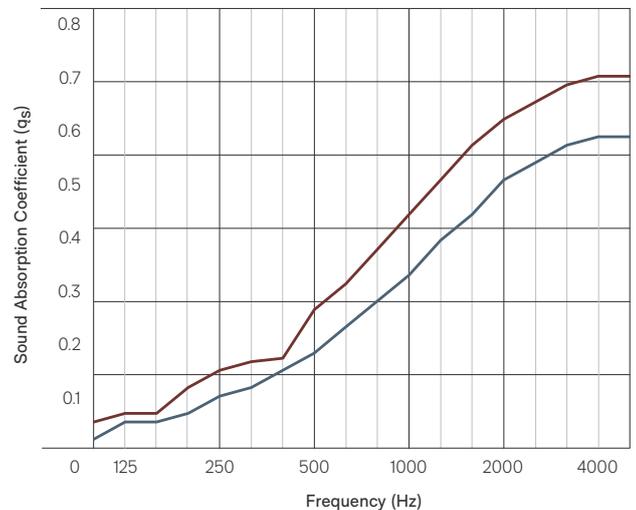
All results are reported in metric sabin - per unit. Equivalent sound absorption area according to ISO 354 measurement of sound absorption in a reverberation room. Average absorption (sabins per unit) calculated at one-third octave bands centred on 250 Hz, 500 Hz, 1000 Hz, and 2000 Hz and rounded to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

Opera	49	Galaxy	15
Savoie	46	Lotus	14
Rosada	45	Ironbank	13
Senado	44	Cavalier	12
Acros	40	Muralla	9
Falling Water	34	Gherkin	8
Parthenon	33	Empire	5
Beehive	33	Sargazo	4
Bosco	29	Pinnacle	3
Flatiron	24	Tree House	3
Zenith	23	Petronas	2

Caring for the environment

Cascade is manufactured using 100% polyester fibre and contains a minimum of 60% recycled fibre (from PET plastics). Our products are designed to be recycled at the end of their life too.

We have continual improvement programmes in which we implement a range of initiatives to mitigate the environmental 'hotspots' that we have identified. Our products are GreenRate Level A, Health Product Declaration (HPD), and CDHP Standard certified.

Cascade is made from Cube which is DeclareSM certified to be Red List free and can be used in Living Building Challenge projects. Autex has a high functioning Environmental Management System (ISO 14001) to enhance our environmental performance and contribute to sustainable development.



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