Autex Acoustics®

Cascade™ Data Sheet

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^3 (7 days)
- Zero waste manufacturing initiative
- Sustainable supply chain and anti-modern slavery

Environmental credentials

- 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.

Product specifications

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

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
Classification: Group 1
(SMOGRArc): <100m²/s2
Assessed using methodology AS ISO 9705 - 2003 in accordance with AS 5637.1:2015, as required by NCC Specification 7: Fire Hazard properties: S7C4
FI 4974
FAR 4055

BS EN 13501-1:2018
Ceiling applications
Classification: B-s1, d0
(Cube™ 12 mm)
Tested according to BS EN ISO 11925-2:2020 and BS EN 13823:2020 + A1:2022 and classified in accordance with BS EN 13501-1:2018, as required by BS EN 13964:2014. 7191361939-MEC25/03-JV

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

ASTM E-84-15a
Class A, FS:0 - SD:45
(Cube™ 12 mm)
RJ4479-2

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.

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

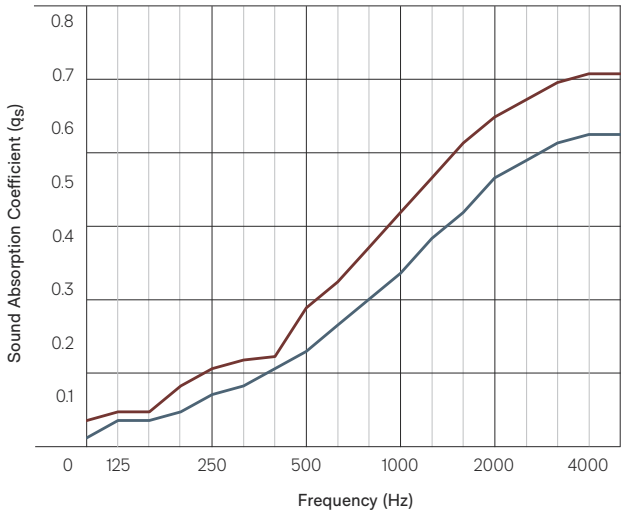
Acoustic performance

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	1.1	2.0	3.1	3.6	1.75
●	Cascade Folding/Expanding 12 mm	0.4	0.9	1.6	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. T1730-5



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
Beehive	33
Canyon	19
Caspian	6
Cavalier	12
Colosseum	52
Empire	5
Falling Water	34
Flatiron	24
Gherkin	8
Highland	19
Muralla	9
Opera	49
Parthenon	33
Pavilion	80
Petronas	2
Pinnacle	3
Rushmore	41
Sargazo	4
Savoye	46
Senado	44
Terrace	24
Tree House	3

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