



# Cascade™

## PRODUCT DESCRIPTION

- Cascade™ are Acoustic Hanging Screens, effective for splitting up a place whilst creating more area for sound absorption.
- The screens are created using Cube™, a semirigid and lightweight panel that is water-cut for patterns allowing a division while keeping a line of sight and light.

## PHYSICAL PROPERTIES

Name	Thickness (mm)	Width x Length (mm)	Material	No. per pack
Cascade™ Static	12mm	1200mm x 2400mm	100% polyester fibre (PET)	1x Cascade™ Static Screen 1x Frontier channel 2x Ceiling connectors 2x 1m wires 2x Autex suspension Sliders
Cascade™ Folding	12mm	1200mm x 2400mm	100% polyester fibre (PET)	1x Cascade™ Folding Screen 1x Frontier Channel 2x Ceiling Connectors 2x 1m Wires 2x Autex Suspension Sliders
Cascade™ Expanding	12mm	1200mm x 2400mm (expand 100% in size)	100% polyester fibre (PET)	2x Cascade™ Expanding Screens 2x Frontier Channels 4x Ceiling Connectors 4x 1m wires 4x Autex Suspension Sliders

## MEASURED VALUES

Frequency (Hz)	125	250	500	1000	2000	4000
Sound Absorption Coefficients (Static 12mm)	0.3	0.6	1.2	2.1	3.1	3.6
Sound Absorption Coefficients (Folding/Expanding 12mm)	0.4	0.9	1.5	2.7	3.8	4.3

## IN ACCORDANCE WITH THE FOLLOWING STANDARDS

- ISO 9705:1993 as required by NZBC C/VM2 (fire rating)
- AS ISO 9705:2003 (fire rating)
- BS EN 13501-1:2018 (fire rating ceiling application)
- ASTM E-84-15a (fire rating)
- ASTM D5116 (VOC emissions)
- ASTM C1104 / C1104M-13a (water vapour sorption)
- ASTM G21-15 (microbial resistance)
- ISO 105-B02:2014 (colour fastness to light)
- ISO 105-X12:2016 (colour fastness to rubbing)

## GENERAL PHYSICAL PROPERTIES

Cascade™	
Tolerance	+/- 6%
Melting point (°C)	250°C
Fire class/ fire hazard properties	Group 1-S Smoke Production Rate <5.0m <sup>2</sup> /s <sup>2</sup> Group 1 SMOGRARC: <100m <sup>2</sup> /s <sup>2</sup> Ceiling applications: B-s <sub>2</sub> ,d <sub>0</sub> (Cube™12mm) Class A, FS:0 – SD:45
Specific Gravity	Polyester 1.38
Solubility	Not soluble
Alkalinity	pH 7.8
VOC Concentration	Low VOC, non-irritant, non-allergenic and it contains NO Red List chemicals 0.009mg/m <sup>3</sup> (7 days)
Sabin (sabins/unit)	Static Screens: 1.7; Folding and Expanding Screens: 2.25
NRC (Noise Reduction Coefficient)	Static 12mm: 1.70 Folding/ Expanding 12mm: 2.25
Water Vapour Sorption	Test Conditions: 49°C, 95%RH Water vapour absorbed and adsorbed after 4 days: 04% by weight
Microbial Resistance	Growth rating: 0 (No growth)
Colour Fastness to Light	Suitable for indoors only Rating: 6 (Highest = 7)
Colour Fastness to Rubbing	Dry rating: 4-5 Wet rating: 4-5 (Highest = 5 for both)

