MERMET
SUN CONTROL TEXTILES

ACOUSTICS FABRICS

MERMET COLLECTION

ACOUSTICS FABRICS

INTERNAL
APPLICATION

WWW.SUNSCREEN-MERMET.COM

THE BENEFITS OF MERMET® FABRICS

By controlling sound reverberation within buildings, our fabrics guarantee:

- Reduced reverberation time
- More intelligible speech
- Thermal and visual comfort: combined with glazing, the fabric enables optimum control over temperature and glare
- A textile appearance with contemporary colours and prints.

Thanks to our technology based on the use of glass fibre, our fabrics combine efficiency and durability:

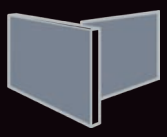
- Chemically inert, non-flammable: they meet the highest fire safety standards
- Dimensional stability, durability, mechanical resistance: they offer a perfect flatness even in large dimensions
- Any dangerous substances: they are conform to standard requirements for buildings open to the public
- No added materials: non-fibrous, they present no inhalation risk. Our fabrics absorb sound waves thanks to their perfect porosity. They thus significantly reduce acoustic reverberation.

APPLICATION

ROLLABLE FABRIC

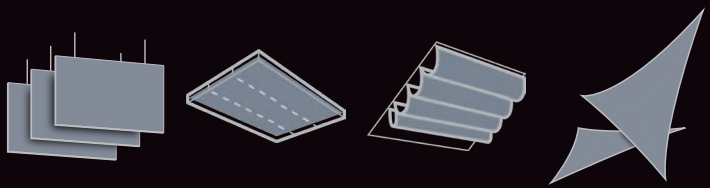
Adapts quickly to the acoustic variability of certain spaces for versatile use.

WALL COVERING



The fabric's exceptional mechanical strength makes it possible to meet any need in this area.

BAFFLE, CEILING, ACOUSTIC VELUM & STRETCHED FABRIC



The fabric's mechanical resistance enables any architectural fabric application, even with large windows and in large spaces.

GREENGUARD
PRODUCT CERTIFIED FOR LOW CHEMICAL EMISSIONS
UL.COM/GG
UL 2818
GOLD

FIVE YEAR WARRANTY

ANTIBACTERIAL

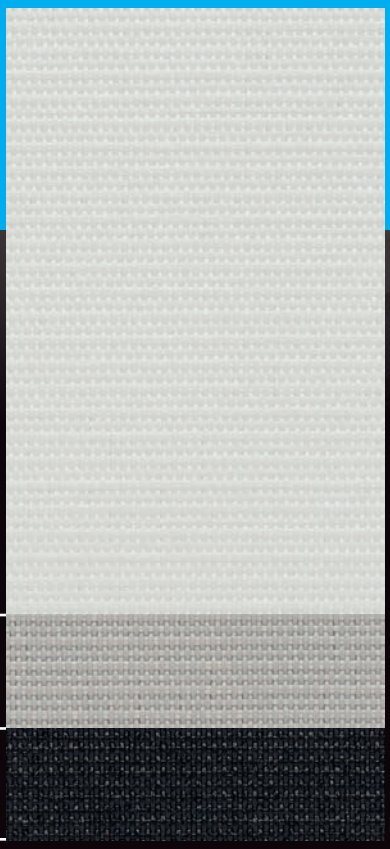
LEAD FREE

FIRE RETARDANT

REACH COMPLIANT

PRINTABLE

ACOUSTIS® 50
ACOUSTICS



0202

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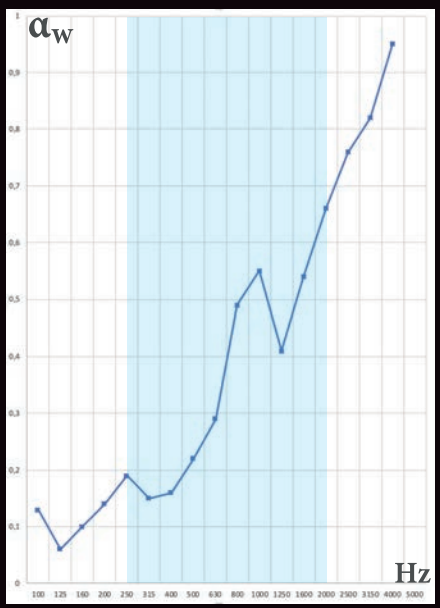
TECHNICAL DATA	
Openness factor	<1%
Widht	250 cm
Weight/m²	420 g ± 5% - ISO 2286 - 2
Thickness	0,50 mm ± 5% - ISO 2286 - 3
Colours	6
Composition	36% Fibreglass - 64% PVC
Fire, smoke classification and other official test report*	**M1 (F)** - NFP 92 503 **Euroclass C-s3-d0** (EU) - EN 13501-1 mounted according EN 13823 & EN 14716 **HHV**: 15,7 MJ/kg (6,59 MJ/m²)
Health, safety	**Greenguard® GOLD**: guarantee of indoor air quality (VOC)

TESTS IN A REVERBERATION CHAMBER* (ACCORDING TO ISO 354)

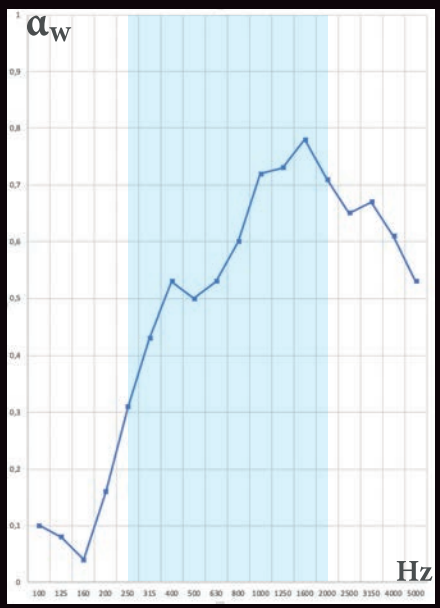
Fabric stretched over a rectangular frame and 25 mm plenum

Alpha W 0,30



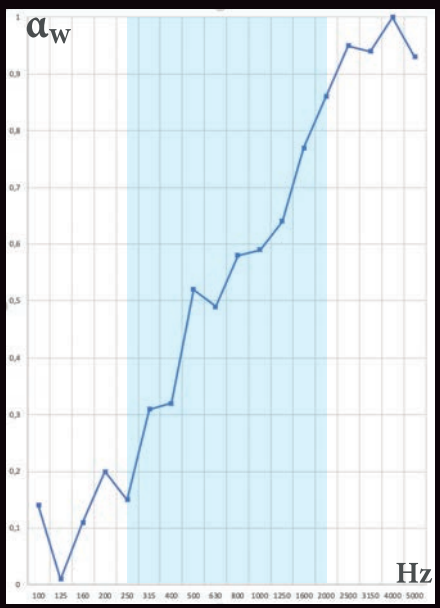
Fabric stretched over a rectangular frame and 175 mm plenum

Alpha W 0,55



Fabric stretched over a rectangular frame and vertical arrangement

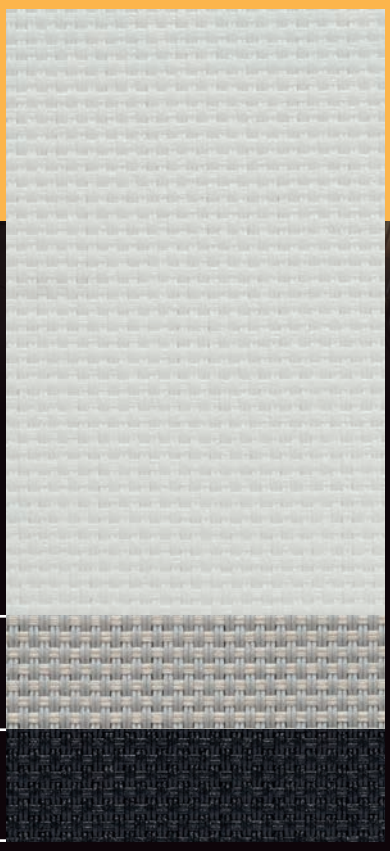
Alpha W 0,75



Our ears are particularly sensitive to the frequencies of the human voice, between about 250 and 2,000 Hz. Special attention thus needs to be paid to this frequency range during acoustic planning.

*Reports on these acoustic tests and on thermal and optical performance available on request from Mermet.

SV 1%
SCREEN VISION



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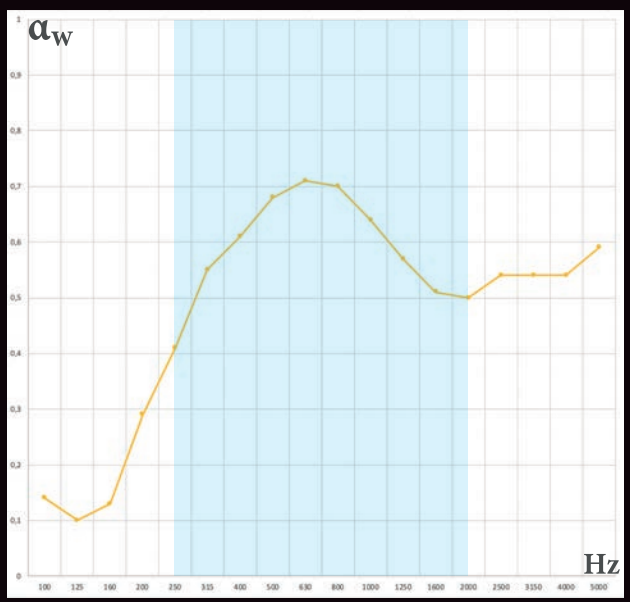
TECHNICAL DATA	
Openness factor	1%
Widths	200 - 250 - 320 cm
Weight/m²	410 g ± 5% - ISO 2286 - 2
Tickness	0,48 mm ± 5% - ISO 2286 - 3
Colours	12
Composition	36% Fibreglass - 64% PVC
Fire, smoke classification and other official test reports*	**M1 (F)** - NFP 92 503 **HHV**: 15,7 MJ/kg (6,59 MJ/m²)
Health, safety	**Greenguard® GOLD**: guarantee of indoor air quality (VOC) **Antibacterial**: more than 99% of bacteria destroyed - ASTM E 2180

TESTS IN REVERBERATION CHAMBER* (ACCORDING TO ISO 354)

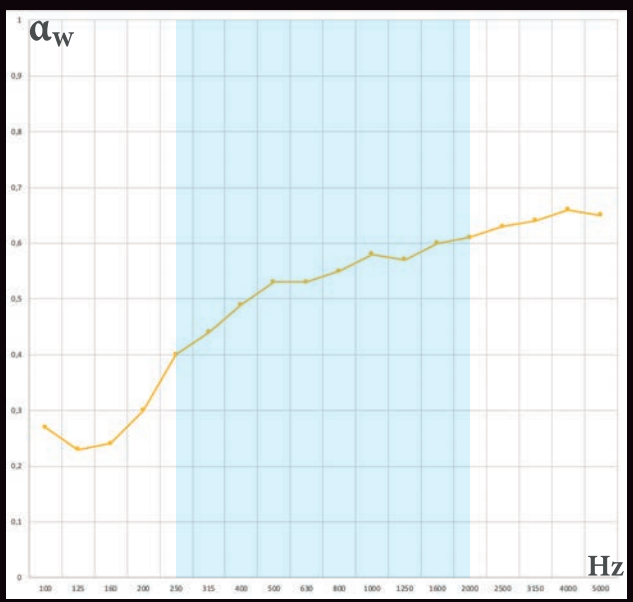
Fabric stretched over a rectangular frame and 175 mm plenum

Alpha W 0,65



Fabric stretched over a rectangular frame and vertical arrangement

Alpha W 0,55



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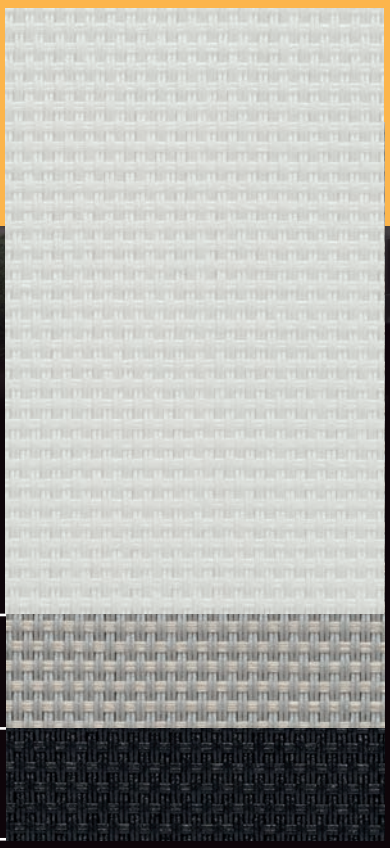
SV 3%
SCREEN VISION



0202

0720

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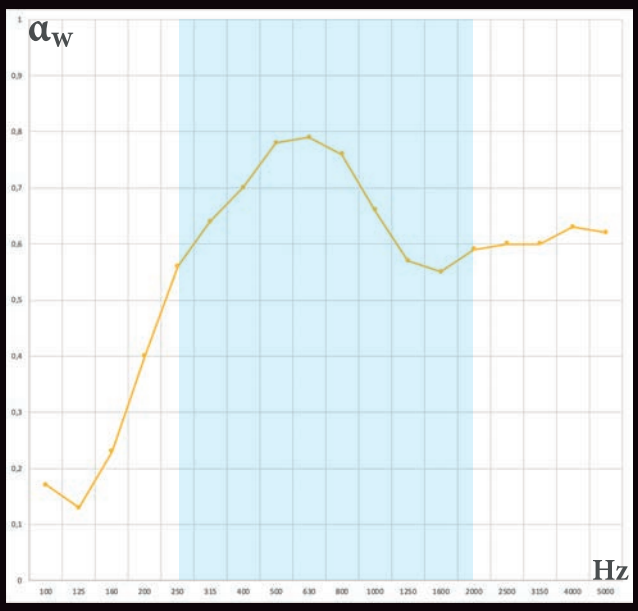
TECHNICAL DATA	
Openness factor	3%
Widths	200 - 250 - 320 cm
Weight/m²	385 g ± 5% - ISO 2286 - 2
Tickness	0,48 mm ± 5% - ISO 2286 - 3
Colours	12
Composition	36% Fibreglass - 64% PVC
Fire, smoke classification and other official test reports*	**M1 (F)** - NFP 92 503 **HHV**: 15,7 MJ/kg (6,59 MJ/m²)
Health, safety	**Greenguard® GOLD**: guarantee of indoor air quality (VOC) **Antibacterial**: more than 99% of bacteria destroyed - ASTM E 2180

TESTS IN REVERBERATION CHAMBER* (ACCORDING TO ISO 354)

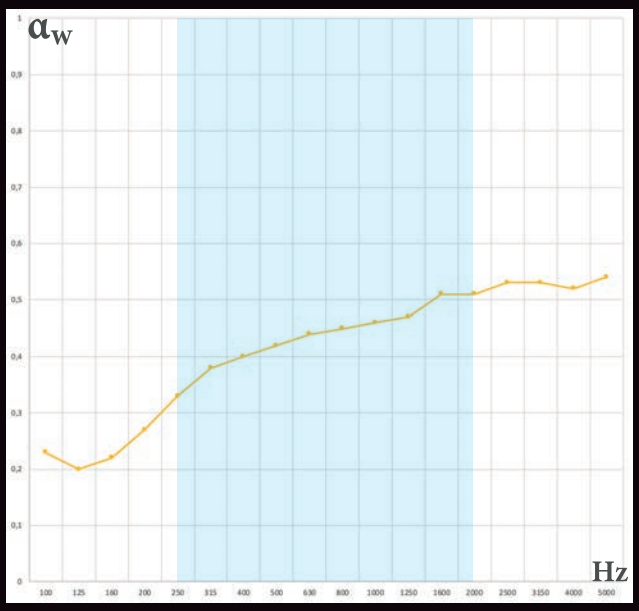
Fabric stretched over a rectangular frame and 175 mm plenum

Alpha W 0,60



Fabric stretched over a rectangular frame and vertical arrangement

Alpha W 0,45



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M-SCREEN 8501

SCREEN DESIGN

0202

0720

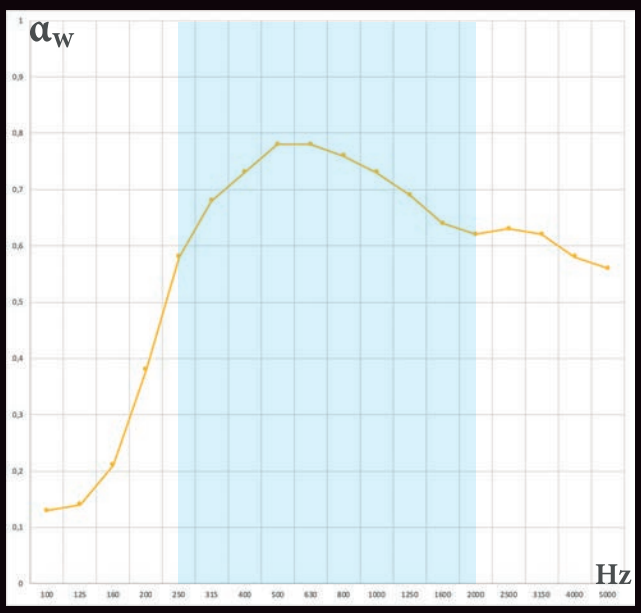
3030

TECHNICAL DATA	
Openness factor	1 %
Widths	200 - 250 - 320 cm
Weight/m²	440 g ± 5% - ISO 2286 - 2
Tickness	0,50 mm ± 5% - ISO 2286 - 3
Colours	22
Composition	36% Fibreglass - 64% PVC
Fire, smoke classification and other official test reports*	**M1 (F)** - NFP 92 503 **HHV**: 15,7 MJ/kg (6,59 MJ/m²)
Health, safety	**Greenguard® GOLD**: guarantee of indoor air quality (VOC) **Antibacterial**: more than 99% of bacteria destroyed - ASTM E 2180

TESTS IN REVERBERATION CHAMBER* (ACCORDING TO ISO 354)

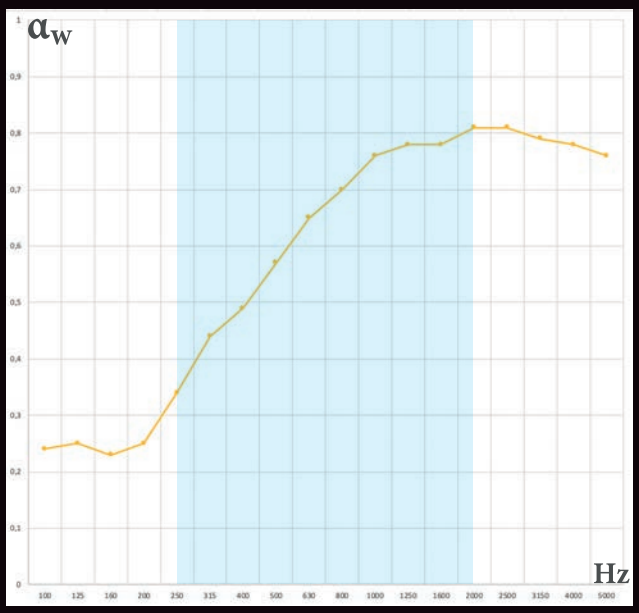
Fabric stretched over a rectangular frame and 175 mm plenum

Alpha W 0,70



Fabric stretched over a rectangular frame and vertical arrangement

Alpha W 0,60



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S2 1%
SCREEN THERMIC

0202

0207

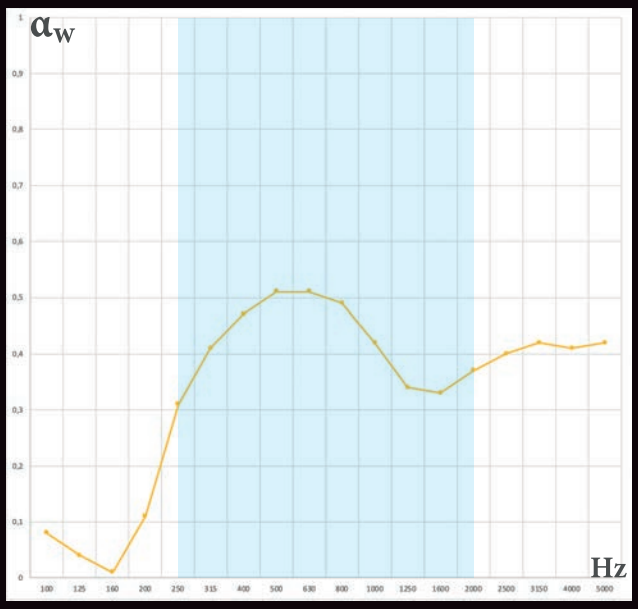
0230

TECHNICAL DATA	
Openness factor	1%
Width	250 cm
Weight/m²	450 g ± 5% - ISO 2286 - 2
Tickness	0,58 mm ± 5% - ISO 2286 - 3
Colours	7
Composition	36% Fibreglass - 64% PVC
Fire, smoke classification and other official test reports*	**M1 (F)** - NFP 92 503 **HHV**: 15,7 MJ/kg (6,59 MJ/m²)
Health, safety	**Greenguard® GOLD**: guarantee of indoor air quality (VOC) **Antibacterial**: more than 99% of bacteria destroyed - ASTM E 2180

TESTS IN REVERBERATION CHAMBER* (ACCORDING TO ISO 354)

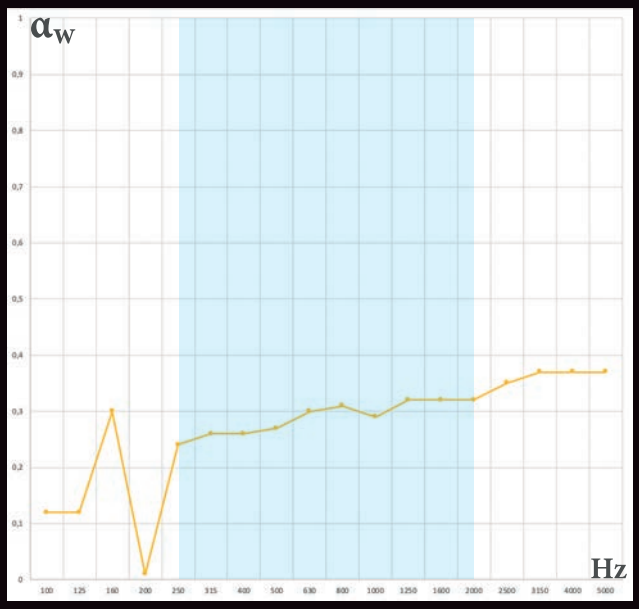
Fabric stretched over a rectangular frame and 175 mm plenum

Alpha W 0,40



Fabric stretched over a rectangular frame and vertical arrangement

Alpha W 0,35



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THE OBJECTIVES

BEING HEARD

Aiming for a high level of speech intelligibility in the space. This means that a person speaking normally is perfectly understood without difficulty by a listener, wherever they are in the room.

REDUCING SOUNDS

Reducing ambient noise levels in the room. Reverberation times must be low to limit the spread of sound through space as far as possible.

Mermet fabrics are suitable for all types of projects: restaurants, hotels, boats, indoor swimming pools, offices, public buildings, school groups, museums, opera houses, libraries, airports, stations, private cinemas, etc...

SERVICE +

- Calculation of solar factor gtot (glazing + blind)
- Spectral values and thermal & optical factors available on request
- Specification sheet
- A4 samples and prototypes
- Training on fabrics functionality

MERMET COLLECTION offers a **wide choice of fabrics** for external and internal application, from transparency to total darkness, for thermal and optical comfort. To receive other brochures from the collection, **contact us**.

SCREEN VISION / DESIGN / THERMIC / LOW E | EXTERNAL SCREEN CLASSIC | SCREEN NATURE | BLACKOUT 100 % | ACOUSTICS

MERMET

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