

Acusorb[®] Tessuto

Product Range & Technical Details

Revision 1.1





Acusorb® Tessuto Introduction.

Product Overview

The Acusorb® Tessuto range of acoustic panels, rafts, baffles and wall panels are fabric upholstered with acoustically transparent FR fabric. The panels core is manufactured from an inert high density glass fibre with outstanding acoustic absorption characteristics. Each panel type be it the wall panel, ceiling raft or ceiling baffle combines great looks with performance transforming a space with aesthetically pleasing visuals and acoustic performance. Acusorb® Tessuto range of panels are a perfect retrofit solution to your existing build that will totally transform the space with a simple upgrade. They are designed to achieve the highest acoustic performance without compromising on style. Their purpose is to absorb sound, enabling the optimum level of acoustic comfort. Acusorb® Tessuto panel systems reduce reverberant noise that is perceived as “echo” ensuring heightened speech intelligibility and acoustic tranquillity in any space.

Simply locate and easily fit Acusorb® Tessuto acoustic rafts and acoustic baffles with a selection of adjustable drop wire kits for ceiling suspension enabling a refreshed visual appeal, enhanced sound absorption, design flexibility with rapid installation whilst the Tessuto wall panels are simply fixed using impaling clips with the centralised usage of high mass adhesive located to each clip before the panel is pushed into position. The Acusorb® Tessuto panel range are therefore easily removed for either panel relocation or building maintenance. Acusorb® Tessuto acoustic panels come in a range of fabric choices and colours offering texture, clean looks with fire performance. These panels require very little maintenance.

With noise control in mind, these fabric upholstered acoustic panels are best installed utilising air gaps behind creating the perfect looking acoustic ceiling and wall system having unrivalled acoustic absorption characteristics.

“A perfect acoustic solution for when clean lines and a contemporary feel is required”

Acusorb® Tessuto ceiling rafts and baffles offer superb acoustic performance and are perfect for areas using a ‘thermal mass construction’ air tightness building method by enabling the air to flow freely around the room.

They are a perfect accompaniment to any internal space where reflective sound may become an issue. Suited to control sound in large atriums, concert halls, lecture theatres, cinemas, hotels, restaurants and lobbies, reception areas and large public interior spaces.

They not only ensure excellent acoustic results but also offer superb visual characteristics that enhance the dynamics and appearance of any space. These acoustic panels are available in a variety of sizes and shapes and are typically 40mm thick.



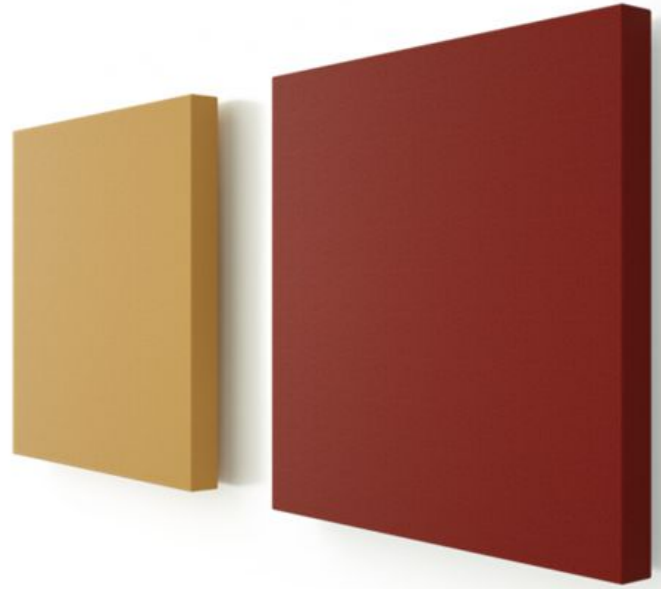
Fabric Covered Acoustic Panels.

Acusorb[®] Tessuto Fabric Upholstered Acoustic Wall Panels.

Acusorb[®] Tessuto fabric wrapped acoustic wall lining system. 'Class A' acoustic performance, a perfect retrofit solution where 'echo' is a perceived problem.



ft. Hex panels



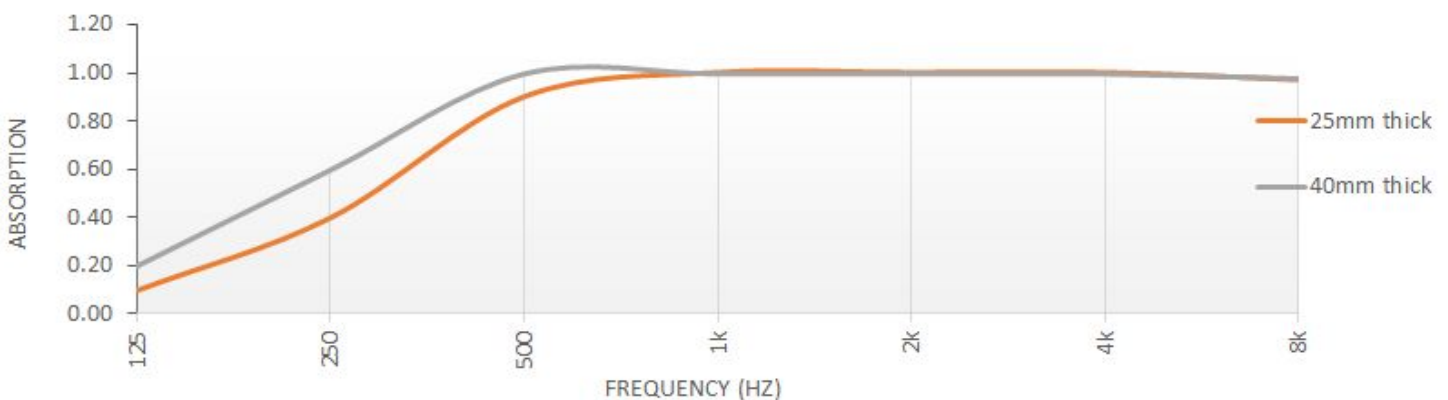
Description

These fabric upholstered wall panels provide sound or noise mitigation offering both greater silencing effects and enhanced quality of sound suitable to speech intelligibility. Acusorb[®] Tessuto acoustic wall panels reduce reverberation levels in any space, which in turn reduces the ambient noise, significantly improving the clarity of sound. Our professional team are here to help you with any questions.

Acoustic Performance.

(Typical values with a 40mm thick 'Class A' acoustic wall panel fixed directly to a solid substrate.

Acusorb [®] Tessuto	Thickness (mm)	Sound Absorption Coefficient (tested to BS EN ISO 354) Octave Bands (Hz)								Building Regulations Absorber Classification When tested to BS EN ISO 11654-1997
		125	250	500	1k	2k	4k	α_w	NRC	
Direct fix to wall	25mm	0.10	0.40	0.90	1.00	1.00	1.00	0.75	0.83	C
Direct fix to wall	40mm	0.20	0.60	1.00	1.00	1.00	0.98	0.90	0.90	A





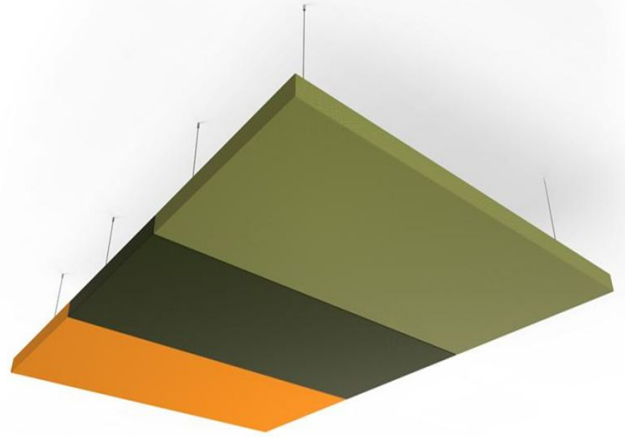
Fabric Covered Acoustic Panels.

Acusorb[®] Tessuto Fabric Upholstered Acoustic Ceiling Rafts.

Acusorb[®] Tessuto fabric wrapped acoustic ceiling rafts. 'Class A' acoustic performance, a perfect retrofit solution where 'echo' is a perceived problem and speech intelligibility is a must.



ft. Circular Rafts



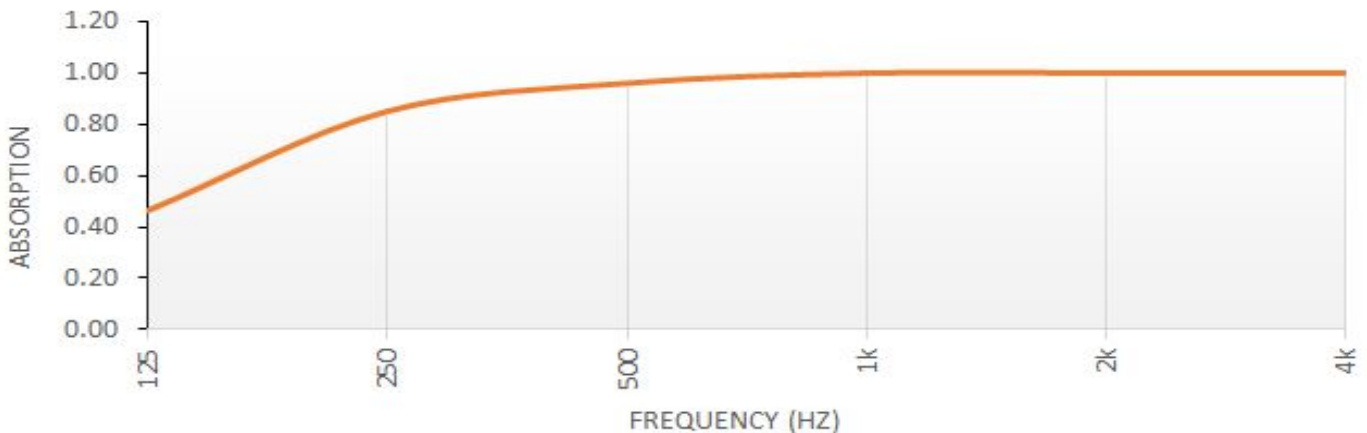
Description

These fabric upholstered ceiling rafts provide sound or noise mitigation offering both greater silencing effects and enhanced quality of sound suitable to speech intelligibility. Acusorb[®] Tessuto acoustic raft panels reduce reverberation levels in any space, which in turn reduces the ambient noise, significantly improving the clarity of sound. Tessuto rafts are perfect for areas using a 'thermal mass construction' air tightness building method. Our professional team are here to help you with any questions.

Acoustic Performance.

(Typical values with a 40mm thick 'Class A' acoustic raft panel suspended from a soffit with a minimum drop distance of 200mm.)

Acusorb [®] Tessuto	Thickness (mm)	Sound Absorption Coefficient (tested to BS EN ISO 354) Octave Bands (Hz)							Building Regulations Absorber Classification When tested to BS EN ISO 11654-1997	
		125	250	500	1k	2k	4k	α_w	NRC	
With 100mm suspension	40mm	0.46	0.85	0.96	1.00	1.00	1.00	1.00	0.99	A





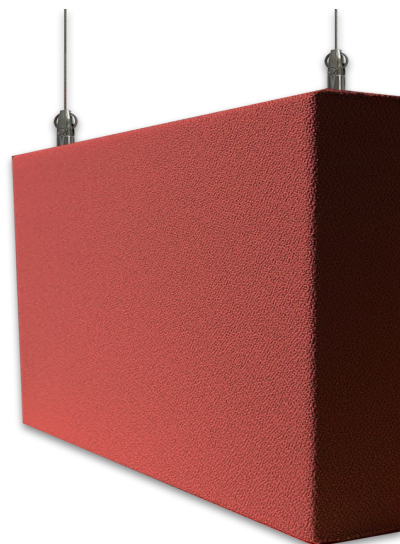
Fabric Covered Acoustic Panels.

Acusorb® Tessuto Fabric Upholstered Acoustic Baffles.

Acusorb® Tessuto fabric wrapped acoustic ceiling baffles. A 'Class A' acoustic material with a 'Class C' acoustic performance, a perfect retrofit solution where 'echo' is a perceived problem.



ft. Baffle partitions



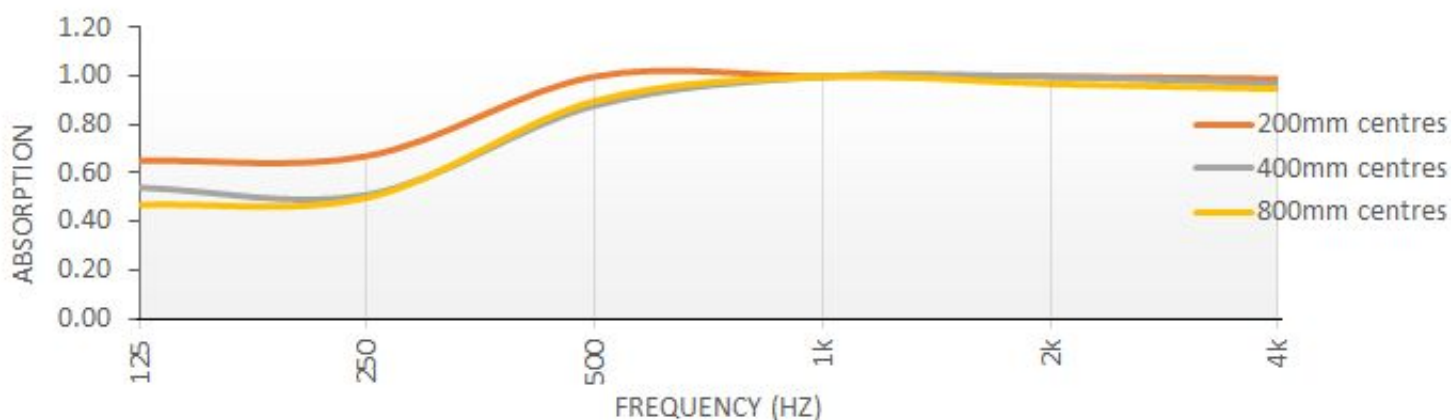
Description

These fabric upholstered suspended ceiling baffles otherwise known as 'Suspended Absorbers' provide sound or noise mitigation offering both greater silencing effects and enhanced quality of sound suitable to speech intelligibility. AcuSorb® Tessuto acoustic baffles reduce reverberation levels in any space, which in turn reduces the ambient noise, significantly improving the clarity of sound. Tessuto baffles are perfect for areas using a 'thermal mass construction' air tightness building method. Our professional team are here to help you with any questions.

Acoustic Performance.

(Typical values with a 40mm thick 'Class A' acoustic material in the 'J' mounted position with a baffle height of 600mm.

AcuSorb® Tessuto	Thickness (mm)	Sound Absorption Coefficient (tested to BS EN ISO 354) Octave Bands (Hz)							Building Regulations Absorber Classification <small>When tested to BS EN ISO 11654-1997</small>
		125	250	500	1k	2k	4k	NRC	
200mm centres	40mm	0.65	0.67	0.10	1.00	1.00	0.99	0.92	C
400mm centres	40mm	0.54	0.51	0.88	1.00	1.00	1.00	0.85	C
600mm centres	40mm	0.47	0.50	0.90	1.00	0.97	0.95	0.84	C





Product Uses.

Acusorb® Tessuto fabric upholstered panels are manufactured from high density resin bonded mineral fibre with a fine texture fiberglass tissue facer and backer then upholstered in acoustic rated fabric to face(s) and all edges. The main advantages to Acusorb® Tessuto acoustic panels are their excellent sound absorption characteristics, they are dimensionally stable under temperature fluctuations and stability under humid conditions. Acusorb® Tessuto wall and ceiling panels are energy saving panels offering superior thermal insulation properties making them ideal for areas using a 'thermal mass construction' air tightness building method by enabling the air to flow freely around the room.



Communal Area Circular Rafts
Modular and quirky, designed for sound control.



Atrium Random Baffles
Maximum acoustic coverage in a seemingly impossible place.



Office Hex Rafts
Designed with character, to quieten down an otherwise noisy office.



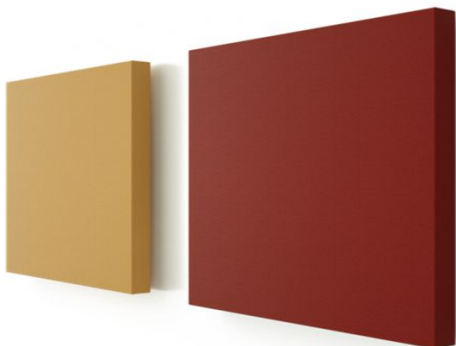
Meeting Room Haphazard Design
Organised lines, high absorption designed for speech intelligibility.



Atrium Scatter Baffle
Scattered effect to hide services and incorporate lighting.



Studio Geo Entwined Hex Panels
Staggered effect for maximum absorption designed for speech intelligibility.



Fabric Wrapped Acoustic Design with Cognitive Behaviour

Glass fibre wall and ceiling treatments are the most effective solutions for sound reduced working environments retrospectively. Perfect for offices, auditoriums, classrooms, restaurants and more commercial environments.

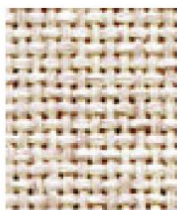
Acusorb® Tessuto panels are fabric upholstered and can have Class A acoustic performance characteristics. With a range of sizes and shapes, you are able to create that specific design that is always required.

Standard colour swatches available. Other client specific fabrics can be looked at and tested for acoustic transparency if required.



Fabric Colourway Swatches.

Cara



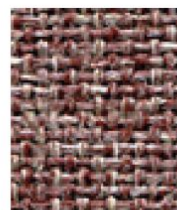
Clan
EJ169



Pitlochry
EJ076



Tummel
EJ038



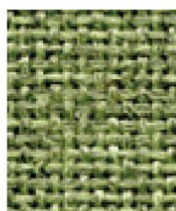
Lossie
EJ197



Austen
EJ173



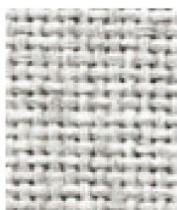
Maree
EJ195



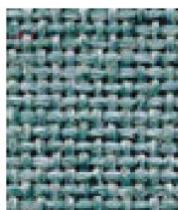
Fair Isle
EJ186



Staffa
EJ185



Glass
EJ004



Ronay
EJ189



Carron
EJ015



Lora
EJ187



Dolphin
EJ105



Inverness
EJ175



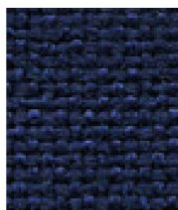
Galilee
EJ125



Cluanie
EJ180



Adriatic
EJ154



Walten
EJ011



Easdale
EJ188



Denny
EJ196



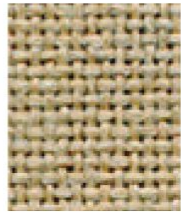
Fabric Colourway Swatches.

Cara continued

Photographic fabric scans are not colour accurate. Always request actual fabric samples before ordering.



Vit
EJ184



Beltane
EJ193



Lerwick
EJ194



Lomond
EJ192



Shetland
EJ191



Spray
EJ033



Portland
EJ016



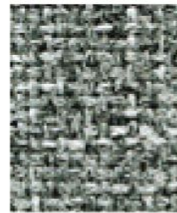
Merrick
EJ048



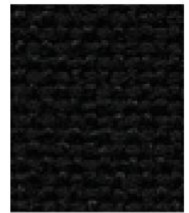
Chaucer
EJ172



Hillswick
EJ190



Lead
EJ104

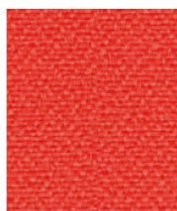


Black
EJ138



Fabric Colourway Swatches.

Lucia



Tortuga
YB168



Lobster
YB087



Belize
YB105



Calypso
YB106



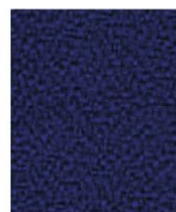
Tequila
YB038



Bridgetown
YB102



Tarot
YB090



Ocean
YB100



Rum
YB086



Steel
YB095



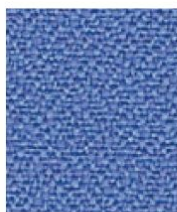
Martinique
YB004



Costa
YB026



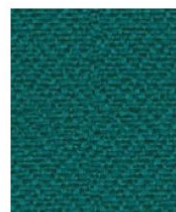
Marianna
YB157



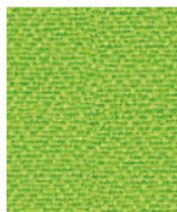
Bluebell
YB097



Scuba
YB089



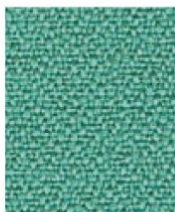
Montserrat
YB011



Madura
YB156



Apple
YB096



Campeche
YB301



Windjammer
YB047



Fabric Colourway Swatches.

Lucia continued

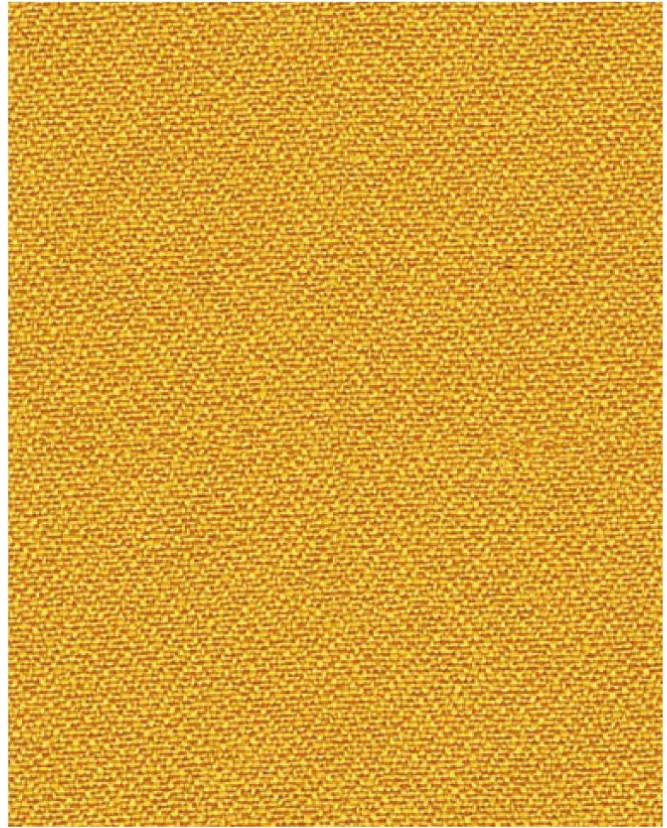
Photographic fabric scans are not colour accurate. Always request actual fabric samples before ordering.



Adobo
YB165



Oyster
YB107



Solano
YB088



Aruba
YB093



Sandstorm
YB302



Blizzard
YB108



Sombrero
YB046



Slip
YB094



Buru
YB170



Paseo
YB019



Havana
YB009



Fabric Technical Properties.

LUCIA

Composition

100% Post Consumer Recycled Polyester

Environment

Certified to the EU Ecolabel

Certified to OEKO-TEX® Standard 100

Certified to Indoor Advantage™ Gold

Made from 100% post-consumer recycled polyester

Non metallic dyestuffs

Width

170 cm minimum

Weight

260 g/m² ±5% (442 g/lin.m ±5%)

Flammability

EN 1021 - 1 (cigarette)

EN 1021 - 2 (match)

BS 7176 Low Hazard

BS 476 Part 7 Class 1 (Adhered)

EN 13501-1 (SBI) Adhered class B, s1, d0

EN 13501-1 (SBI) Un-adhered class B, s1,d2

Note: Flammability performance is dependent on components used. Our certificates show what substrates have been used in our tests. For composite tests customers must ensure their complete furniture meets the necessary standards.

Light Fastness

6 (ISO 105 - B02)

Fastness to Rubbing

Wet: 4, Dry: 4 (ISO 105 - X12)

Acoustic Properties

Acoustically transparent, Acoustic graphs available upon request

Bleach Cleanable

ISO 105 E03 colour change 4 for dilution factor 1:4 chlorine solution

Cleaning

Vacuum regularly. Wipe with a damp cloth using a proprietary upholstery shampoo/ soap. For deeper cleaning use steam, bleach, alcohol or professionally dry clean. Can be washed at 60°C. Full details can be found in our cleaning and disinfection guide.

Please note that seam performance is dependent on seam construction and needle and thread type. We recommend that appropriate sewing advice be taken.

CARA

Composition

100% Polypropylene

Environment

Certified to the EU Ecolabel

Certified to Indoor Advantage™ Gold

Width

170 cm minimum

Weight

220 g/m² ±5% (374 g/lin.m ±5%)

Flammability

EN 1021-1 (cigarette)

BS 476 Part 7 Class 1 (Adhered)

EN 13501-1 (SBI) Adhered Class B, s2, d0

Note: Flammability performance is dependent on components used. Our certificates show what substrates have been used in our tests. For composite tests customers must ensure their complete furniture meets the necessary standards.

Light Fastness

6 (ISO 105 - B02)

Fastness to Rubbing

Wet: 4, Dry: 4 (ISO 105 - X12)

Bleach Cleanable

ISO 105 E03 colour change 4 for dilution factor 1:4 chlorine solution

Acoustic Properties

Acoustically transparent. Acoustic graphs available upon request

Cleaning

Vacuum regularly. Wipe with a damp cloth using a proprietary upholstery shampoo/ soap. For deeper cleaning use bleach or alcohol. Full details can be found in our cleaning and disinfection guide.

Batch to batch variations in shade may occur within commercial tolerances. We reserve the right to alter technical specifications without notice. The Unregistered Design Rights and the Copyright in all designs are the exclusive property of Camira Fabrics Limited.



Tessuto Technical Specification.

1. Product Overview

Install with the following components:

Acusorb® Tessuto wall panels in the size of.....mm long Xmm wide Xshape.

Acusorb® Tessuto ceiling raft in the size of.....mm long Xmm wide Xshape.

Acusorb® Tessuto ceiling baffle in the size of.....mm long Xmm wide Xshape.

2. Finish

Fabric colour to be chosen from our standard colourway range: Cara - Colour..... EJ.....

Lucia - Colour.....YB.....

3. Tolerance

Panel cutting tolerance: +/- 2mm.

4. Fire Performance

A selection of fabrics which meet the requirements of BS476: Part 7 Class 1 Surface Spread of Flame. Screen fabrics can be chemically treated to provide a Class '0' fire rating. Core material is a non combustible.

5. Nominal Density & Weight

Acusorb® Tessuto core board is 96kg/m³ and the finished product weight is 4.8kg/m².

6. Installation

Install Acusorb® Tessuto acoustic wall panels, rafts & baffles in client specific locations, level and in alignment with other product types. Comply with manufacturer's written instructions for installation of panels using type of fixing accessories indicated as above as recommended by the manufacturer.

7. Storage, Delivery & Handling

Protect Acusorb® Tessuto acoustic panels from excessive moisture when storing, and handling. Keep panels flat at all times.

8. Cleaning

After completion of installation remove all dust.

Always remove surplus material, debris and rubbish resulting from panel installation. On completion of works leave areas of installation neat and tidy.

9. Supplier

Acusorb® Tessuto acoustic panels supplied by:

Acuphon Ltd, Orchard House, Fuller Street, Ruddington, Nottinghamshire, NG11 6HU, United Kingdom.

Tel: 01904 900 194 Email: sales@acuphon.co.uk Web: www.acuphon.co.uk