Architectural Acoustics

ALPHAcoustic - ACu.Reverb

SOUND-ABSORBING CURTAINS

ALPHA ACOUSTIKI

In TUNE with YOUR needs

SOUND-ABSORBING CURTAIN

ACu.Reverb Sound-Absorbing Curtains are designed to absorb sound energy and improve room acoustics.

Acoustic curtains can be utilized as a cover for a window or wall to improve the reverberation time of a room.

- Low cost acoustic solution
- Achieve variable reverberation time
- Versatility of shapes
- Easy to install/ move
- Low space requirement
- Tailored to your needs
- Sun/Artificial light control

ACu.Reverb is offered in a variety of fabric types to cover more aesthetic requirements and additional needed features.

- Cotton
- Velour
- Wool
- Felt
- Velvet FR

Eco-friendly
Recyclable

MAIN ASPECTS TO CONISIDER

The main aspects to consider while choosing your tailored-to-your-needs sound absorbing curtain are:

- Desired sound absorbing results
- Light control needs
- Material/fabrics
- Size (greater than the opening)
- Hardware (hanging system type)
- Aesthetics

ACOUSTIC DATA

For each type of sound-absorbing curtain, official certifications on its acoustic performance are available upon request.

Officially certified

Weighted sound absorption coefficient α_w measured according to ISO 354 and ISO 11654

RAIL SYSTEM

The standard tracking system of **ACu.Reverb** consists of a heavy duty aluminum rail with gliders where the sound absorbing curtain can easily be moved, heavy duty hooks and mounting

- Wall or ceiling hanging systems available.
- Fitting methods and hanging rail system selected based on project requirements.
- Polyethylene slides & track gliders in accordance to curtain's weight.

Moving method options:

• By hand
• Cord operated
• With electric motion (wall mounted switch or remote control)

Motorized system

ADDITIONAL FEATURES AVAILABLE UPON REQUEST

- Flame retardant fabrics
- More external fabric finishes
- Rail system options (colours, dimentions, forms, types)

APPLICATION EXAMPLES

For sound-proofing curtains instead of sound-absorbing ones, we invite you to be informed about the series of acoustic curtains A.Cu-Noise with three layers of fabric, certified sound-proofing performance and an extensive range of aesthetic options.

Our team of acoustic engineers will assist you in choosing the acoustic curtain type with the most suitable acoustic properties for your project.

ACU.REVERB - COTTON

Acoustic curtains **ACu.Reverb-Cotton** is a new series of commercial type sound-absorbing curtains made of heavy molton cotton fabric.

They block the light and acoustic conditions of space with easy horizontal movement.

For better acoustic performance, it is recommended to consider a curtain width that is at least twice the width of the the desired coverage length (100 % fullness/double curtain pleat).

ACu.Reverb-Cotton
Acoustic Curtains
made of cotton fabric

ADVANTAGES

- Economic method for acoustic improvement
- Thermal insulation
- Easy installation
- Ability to achieve variable Reverberation time
- Sun light control (Black out)
- Cotton fabric with special treatment for increased fire resistance B1.

The sound absorption coefficient can reach up to α_w= 0.70 according to ISO 11654.
The analytical results of acoustic characteristics are available upon request and depend on the folding fullness and the distance from the wall.

TECHNICAL DATA

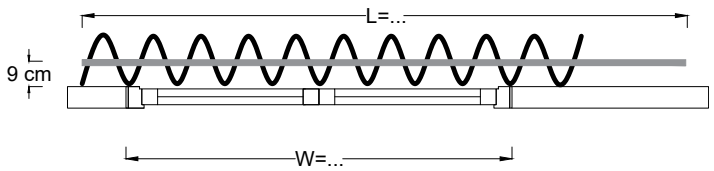
Dimensions (W x H): 3 x 2.95 m - other dimentions upon request
Curtain ready for installation
Material: 100% cotton
Flame resistance according to DIN 4102: B1
Surface Density: 500 gr / m²
Approximate weight: 4.5 kg / package
Color: Black

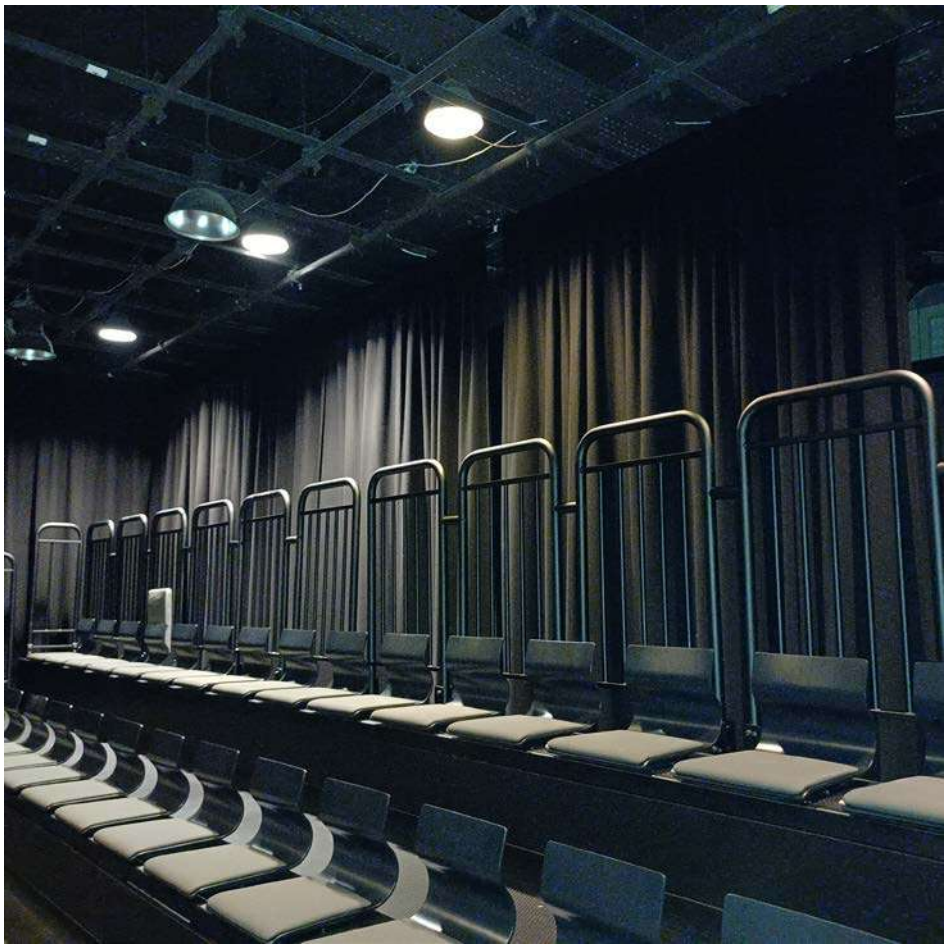
Each curtain package includes hooks for hanging the curtain from the rail system.

For better and more complete service, we optionally provide the hanging rail system along with all the accessories for rolling and fixing the curtain on the wall or the ceiling.

In order to better determine the required amount of standard curtain pieces, the dimensions of the required coverage area and the total length of the rail guide should be defined, taking into account the necessary "parking" length of the curtain in the closed position.

Following, a typical plan of the curtain and the rail track system.





ACU.REVERB - WOOL

Acoustic curtains **ACu.Reverb-Wool** is a new series of commercial type sound-absorbing curtains made of natural wool fabric ALPHAcoustic-CL.WF.

They allow you to change the light and acoustic conditions of the space with easy horizontal movement.

For better acoustic performance, it is recommended to consider a curtain width that is at least twice the width of the the desired coverage length (100 % fullness/double curtain pleat).

ADVANTAGES

- Ecological product produced from specially processed sheep wool fabric (Wool). It comes from a sustainable natural fiber.
- Economic method of acoustic improvement
- Thermal insulation
- Easy installation
- Sun light control
- Wool felt with natural increased fire resistance properties

The sound absorption coefficient can reach up to α_w= 0.70 according to ISO 11654.
Acoustic characteristics depend on the folding fullness and the distance from the wall.

ACu.Reverb-Wool
Acoustic Curtains
made of natural wool

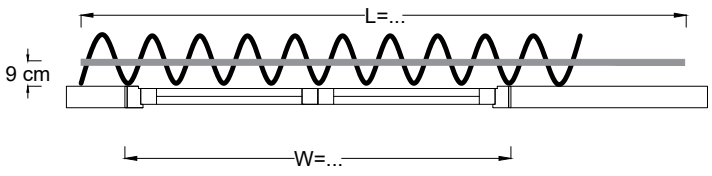
TECHNICAL DATA

Dimensions (W x H): 1,40 x 2,80 m - other dimentions upon request
Curtain ready for installation
Material: 70% Natural wool fiber
Surface Density: 320 gr / m²
Quantity per package: 2 pieces
Approximate weight: 5 kg / package
Standard color: blue (code.18) (choice between 57 additional colors, upon request for a certain amount of order quantity)
Each curtain package includes hooks for hanging the curtain from the rail system.

For better and more complete service, we optionally provide the hanging rail system along with all the accessories for rolling and fixing the curtain on the wall or the ceiling.

In order to better determine the required amount of standard curtain pieces, the dimensions of the required coverage area and the total length of the rail guide should be defined, taking into account the necessary "parking" length of the curtain in the closed position.

Following, a typical plan of the curtain and the rail track system.



WOOL FABRIC SELECTION

Here is the wide variety of colors from **ALPHAcoustic-CL.WF** collection made of natural wool fabric.

MAINTAINANCE

Vaccum regularly. Wipe clean with a damp cloth or shampoo using proprietary upholstery shampoo.

ACU.REVERB - FELT

Acoustic curtains **ACu.Reverb-Felt** is a new style of commercial type sound-absorbing curtains, made of natural sheep wool felt ALPHAcoustic-NWF.

They allow you to change the light and acoustic conditions of the space with easy horizontal movement.

For better acoustic performance, it is recommended to consider a curtain width that is at least twice the width of the the desired coverage length (100 % fullness/double curtain pleat).

ADVANTAGES

- Ecological product produced from specially processed sheep wool felt (Wool Felt). It comes from a sustainable natural fiber.
- Economic method of acoustic improvement
- Thermal insulation (3.5mm thickness)
- Easy installation
- Sun light control (black out)
- Wool felt with natural increased fire resistance properties

The sound absorption coefficient can reach up to α_w *= 0.70* according to ISO 11654.
Acoustic characteristics depend on the folding fullness and the distance from the wall.

ACu.Reverb-Felt
Acoustic Curtains
made of natural wool felt

TECHNICAL DATA

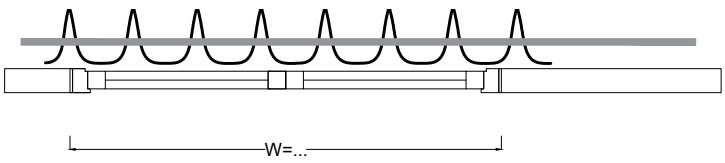
Dimensions (W x H): 1,50 x 2,80 m (before sewing) - other dimentions upon request
Thickness 3.5 mm
Curtain ready for installation
Material: 90% Natural Wool Felt
Surface Density: 550 gr / m²
Quantity per package: 2 pieces
Approximate weight: 5 kg / package
Standard color: Grey dark (code. 923) (selection of 48 additional colors, upon request for a certain amount of ordered quantity)

ACu.Reverb-Felt curtains are delivered with metal pins to be hung on a compatible rail track system.

For better and more complete service, we optionally provide the hanging rail system along with all the accessories for rolling and fixing the curtain on the wall or the ceiling.

In order to better determine the required amount of standard curtain pieces, the dimensions of the required coverage area and the total length of the rail guide should be defined, taking into account the necessary "parking" length of the curtain in the closed position.

The wavy presentation is maintained with vertical seams appropriately positioned at one side of the curtain.



FELT FABRIC SELECTION

Here is the wide variety of colors from **ALPHAcoustic-NWF** collection made of natural wool felt.

MAINTAINANCE

Vaccum regularly. Wipe clean with a damp cloth or shampoo using proprietary upholstery shampoo.

ACU.REVERB - VELOUR

Acoustic curtains **ACu.Reverb-Velour** is a new series of commercial type sound-absorbing curtains, made of heavy velour fabric.

They allow you to change the light and acoustic conditions of space with easy horizontal movement.

For better acoustic performance, it is recommended to consider a curtain width that is at least twice the width of the the desired coverage length (100 % fullness/double curtain pleat).

ADVANTAGES

- Economic method for acoustic improvement
- Thermal insulation
- Easy installation
- Ability to achieve variable Reverberation time
- Sun light control
- Fabric with velour texture

The sound absorption coefficient can reach up to α_w= 0.70 according to ISO 11654.
Acoustic characteristics depend on the folding fullness and the distance from the wall.

NOTE: For applications where reaction to fire is an important factor in curtain selection, the **Velour FR** type can be used (see color options below).

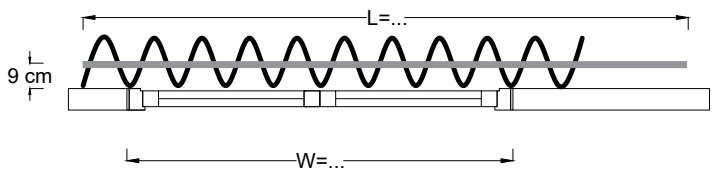
TECHNICAL DATA

Dimensions (W x H): 1,40 x 2,80 m - other dimentions upon request
Curtain ready for installation
Material: Polyester
Surface Density: 340 gr / m²
Quantity per package: 2 pieces
Approximate weight: 3.5 kg / package
Standard color: Grey (code. 14) (slection of 17 additional colors, upon request for a certain amount of ordered quantity)
Each curtain package includes hooks for hanging the curtain from the rail system.

For better and more complete service, we optionally provide the hanging rail system along with all the accessories for rolling and fixing the curtain on the wall or the ceiling.

In order to better determine the required amount of standard curtain pieces, the dimensions of the required coverage area and the total length of the rail guide should be defined, taking into account the necessary "parking" length of the curtain in the closed position.

Following, a typical plan of the curtain and the rail track system.



VELOUR FABRIC SELECTION

Choosing the right color combinations for your project could be a great way to set the mood and tone of your designs. Here is the wide variety of colors from the velour fabrics collection.

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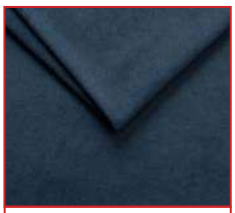
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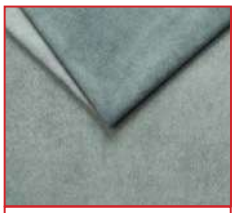
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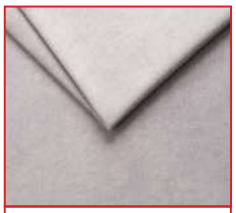
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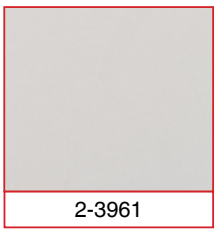
VELOUR **FR** FABRIC SELECTION

Material: Polyester fabric
Density: 460 gr / m²
Reaction to fire: M1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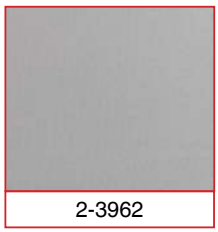
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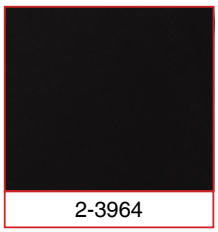
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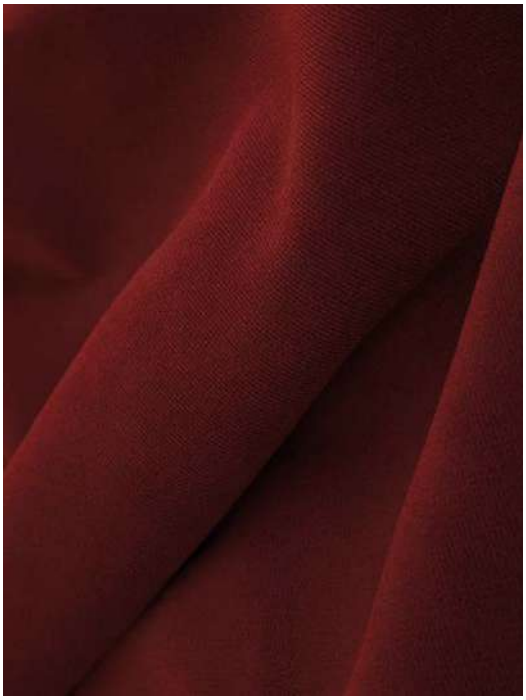
MAINTAINANCE
Vaccum regularly. Wipe clean with a damp cloth or shampoo using proprietary upholstery shampoo.

ACU.REVERB - VELVET FR



Acoustic elegant curtains **ACu.Reverb-Velvet FR** is a new series of sound-absorbing curtains, made of heavy velvet fabric with TREVIRA FR fibers. This means that the fiber from which it is produced has resistance to flame propagation.

They allow you to change the light and acoustic conditions of the space with easy horizontal movement.

For better acoustic performance, it is recommended to consider a curtain width that is at least twice the width of the the desired coverage length (100 % fullness/double curtain pleat).

ADVANTAGES

- High aesthetics of real velvet
- Thermal insulation
- Easy installation
- Ability to achieve variable Reverberation time
- Sun light control
- Vibrant and bright colors, soft velvety feel.

They combine elegance and offer high aesthetics to the space.

The sound absorption coefficient can reach up to α_w = 0.90 according to ISO 11654.
You can reguest the results of analytical acoustic characteristics, which depend on the folding fullness and the distance from the wall.

TECHNICAL DATA

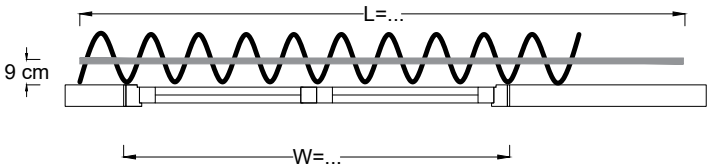
Dimensions (W x H): 1,40 x 2,80 m - other dimentions upon request
Curtain ready for installation
Material: Polyester TREVIRA FR
Surface Density: 500 gr / m²
Quantity per package: 2 pieces
Approximate weight: 4.5 kg / package
Color: 26 color choices (ref. to the color codes below)
Fire resistance: B1 / DIN 4102

Each curtain package includes the proper hooks for hanging the curtain from the rail system.

For better and more complete service, we optionally provide the hanging rail system along with all the accessories for rolling and fixing the curtain on the wall or the ceiling.

In order to better determine the required amount of standard curtain pieces, the dimensions of the required coverage area and the total length of the rail guide should be defined, taking into account the necessary "parking" length of the curtain in the closed position.

Following, a plan of the curtain and the rail guide.



VELVET FR FABRIC SELECTION

Velvet FR collection is a premium fabric line made of real velvet (100% polyester TREVIRA CS) with fire resitance properties(FR DIN4102B1).
Choosing the right color combinations for your project could be a great way to set the mood and tone of your designs.
Here is the wide variety of colors from the velvet FR fabrics collection.

Maintenance

Vacuum regularly. Wipe clean with a damp cloth or shampoo using proprietary upholstery shampoo.

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Further information and updates at www.alphacoustic.com

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ACU.REVERB - ROLLER.MESH

Acoustic Roller-curtains **ACu.Reverb-Roller.Mesh** is a new series of sound-absorbing roller shades, made of special synthetic mesh fabric.

The selection of the perforation ratio and the size of the hole has been made after specialized investigation of its impact on sound absorption. The principle of operation is based on trapping sound at the back of the fabric.

They allow you to change the light and acoustic conditions of space with the use of a vertical movement mechanism located at the top of the roller-curtain that is operated using a plastic chain.

ADVANTAGES

- Economic method of acoustic improvement
- Thermal insulation: prevents up to 90% of incoming heat helping to maintain a constant internal temperature.
- Easy installation
- Ability to achieve variable reverberation time
- Sun light control (glare)
- Synthetic material with increased fire resistance.

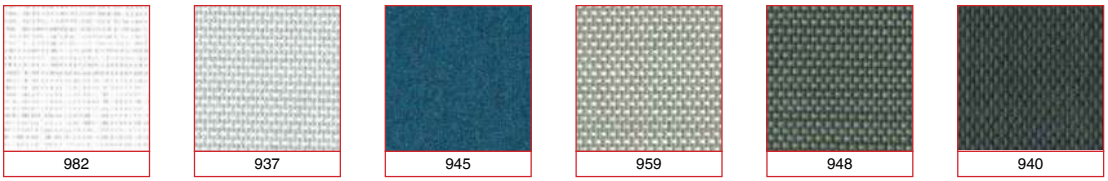
The sound absorption coefficient can reach up to α_w = 0.45 according to ISO 11654.
Acoustic characteristics depend on the distance from the wall.
It has a class flame resistance certification B-s2,d0 according to EN ISO13 501-1.

ACu.Reverb-Roller.Mesh
Acoustic Roller shades
made of special synthetic mesh fabric

TECHNICAL DATA

Dimensions: Width= (max)1.80 m (other dimensions upon request)
Height= (max) 2.50 m (other dimensions upon request)
Perforation ratio: 1%
Compliance with the specifications of EN ISO 14501.
The roller-shade package includes the hanging system for wall or ceiling installation as well as its vertical rolling system.

Color: 6 standard colors (ref. to the color codes below)
Additional colors available by changing the perforation ratio (1%, 3%, 5%) or printing the fabric, upon request.



FABRIC MAINTAINANCE
Cleaning with a vacuum cleaner. Localised stain cleaning with a damp cloth or using a proprietary upholstery shampoo.

ACU.REVERB - ROMAN.FELT

Acoustic Roman-curtains **ACu.Reverb-Roman.Felt** is a new series of sound-absorbing folding shades, made of thick recycled polyester felt type of fabric.

They allow you to change the light and acoustic conditions of space with the use of a Roman type vertical movement mechanism located at the top of the curtain that is operated using a synthetic chain.

ACu.Reverb-Roman.Felt
Acoustic Roman-Curtains

ADVANTAGES

- Ecological product produced from recycled polyester fiber
- Economic method of acoustic improvement
- Thermal insulation
- Easy installation
- Ability to achieve variable Reverberation time
- Sun light control (Black out)

The sound absorption coefficient can reach up to aw = 0.45 according to ISO 11654.
Acoustic characteristics depend on the thickness of the felt and the distance from the wall.

TECHNICAL DATA

Dimensions: Width = (max) 2m
Height = (max) 2 m
Thickness = 6 mm
The Roman-shade package includes the hanging system for wall or ceiling installation as well as its vertical rolling system. Remote control electrical motor operation can be added upon request.

Standard colors:

FABRIC MAINTAINANCE
Cleaning with a vacuum cleaner. Localised stain cleaning with a damp cloth or using a proprietary upholstery shampoo.

ALPHA ACOUSTIKI

In TUNE with YOUR needs

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ALPHA ACOUSTIKI S.A. combines technical experience and scientific knowledge with its Engineering team, specialized in the field of room acoustics since 1980.

We create workplaces where people choose to work, tailored to the specific requirements of each job, with particular attention to the acoustic necessities of the employee.

DESIGNING FOR WELL-BEING

Please be informed about our acoustic panel designs such as:

- **ALPHAcoustic-Fabric**
- **ALPHAcoustic-Fos**

Our technical department *(tech@alphacoustic.com)*, would be happy to help you improve the Architectural Acoustics in your project.

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