Architectural Acoustics

ALPHAcoustic - ACu.Reverb

SOUND-ABSORBING CURTAINS

45+ years
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.

ADVANTAGES

- 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
- Velour FR
- Wool
- Felt
- Velvet FR
- WoodSkin

MAIN ASPECTS TO CONISIDER

Key Considerations for Tailored Sound Absorbing Curtains:

- Desired sound absorption performance
- Light control requirements
- Material / Fabric+Color type
- Size (exceeding the opening)
- Hardware / Hanging system type
- Pleating / Folding style
- Fire safety and Acoustic certifications

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 (Optional)

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

ACU-CORNICE (Optional)

The **ACu-Cornice** (Pelmet) conceals the curtain's sliding mechanism, is open at both ends, and is upholstered with the same fabric as ACu-Reverb curtains, providing a clean, seamless architectural finish.

APPLICATION EXAMPLES

For soundproofing (not sound absorption), we recommend the A.Cu-Noise acoustic curtains: a three-layer fabric with certified soundproofing and a wide range of aesthetic options.

Our acoustic engineers can help you select the most suitable curtain 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 (DIN 4102).

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.

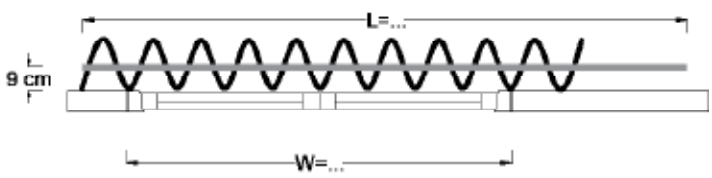
TECHNICAL DATA

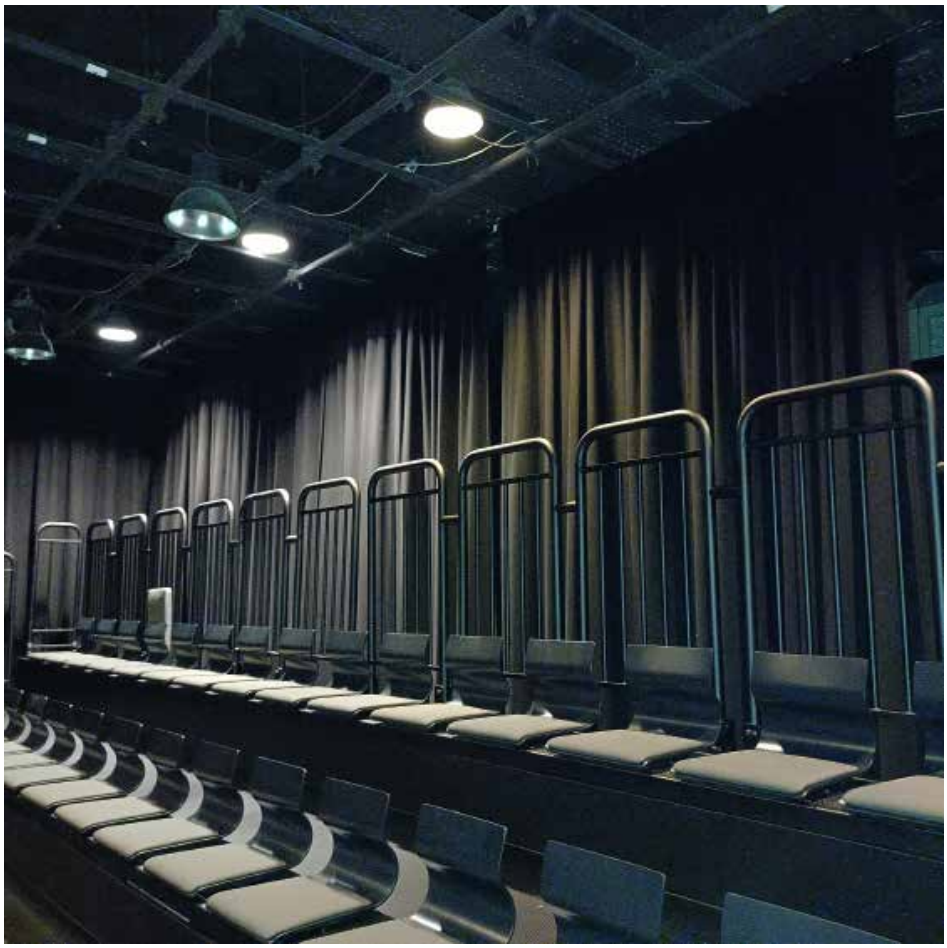
Dimensions (W x H): 3 x 2.95 m - other dimentions upon request
Curtain ready for installation
Material: 100% cotton
Flame resistance according to DIN 4102: B1
Color: Black

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

To accurately determine the number of standard curtain pieces/module needed, define the coverage area dimensions and total rail length, including the required 'parking' space for the curtain when closed.

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





ACU.REVERB - VELOUR

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

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 Below)

TECHNICAL DATA

Dimensions (W x H): Standard Width 140cm, while the curtain height depends on the specific application requirements
Curtain ready for installation
Material: Polyester fabric
Color Selection: See Below Page
Each curtain package includes hooks for hanging the curtain from the rail system.

VELOUR FABRIC SELECTION

Velour fabrics available in a wide color range for precise material selection.

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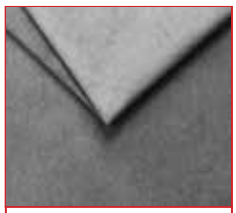
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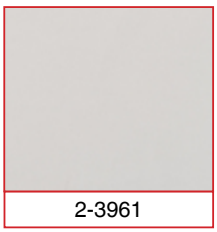
VELOUR **FR** FABRIC SELECTION

Material: Polyester fabric
Reaction to fire: M1 (NF P92-507)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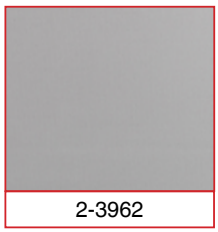
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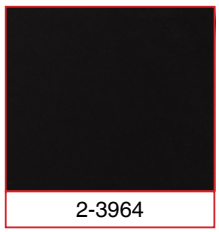
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MAINTAINANCE
Vaccum regularly. Wipe clean with a damp cloth or shampoo using proprietary upholstery shampoo.

ACU.REVERB - WOOL +

Acoustic curtains **ACu.Reverb-Wool** is a new series of commercial type sound-absorbing curtains made of natural recycle 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).

ACu.Reverb-Wool
Acoustic Curtains
made of natural recycled wool

ADVANTAGES

- Ecological product produced from specially processed sheep wool fabric (Wool). It comes from a sustainable natural recycled fibers.
- Economic method of acoustic improvement
- Thermal insulation
- Easy installation
- Sun light control (Not total Blackout)
- Fabric with Felt Appearance

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.

TECHNICAL DATA

Dimensions: Standard Width 150cm, while the curtain height depends on the specific application requirements
Curtain ready for installation
Material: 70% Natural recycled wool fiber
Color Selection: See Below Page
Each curtain package includes hooks for hanging the curtain from the rail system.

WOOL FABRIC SELECTION +

Here is the wide variety of colors from **ALPHAcoustic-CL.WF** collection made of natural recycled 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 economical type sound-absorbing curtains, made of PET Felt.

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

- An ecological product made from recycled polyester fibers derived from plastic bottles. It is created from a sustainable fiber mix that is fused together using heat and pressure, without any chemical additives.
- Economic method of acoustic improvement
- Thermal insulation (3mm thickness)
- Easy installation
- Sun light control (non total black out)

Acoustic characteristics depend on the folding fullness and the distance from the wall.

ACu.Reverb-Felt
Acoustic Curtains made of PET felt

TECHNICAL DATA

Dimensions (W x H): 2,00 x 2,80 m (before fold = flat) - other dimentions upon request
Thickness ≈ 3 mm
Curtain ready for installation
Standard colors: following page

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

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.

PET FELT COLOR SELECTION

Standard colors:

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

ACu.Reverb-Felt

ACU.REVERB - VELVET FR

Acoustic elegant curtains **ACu.Reverb-Velvet FR** is a 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- Resistance to fire propagation
- 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: Standard Width 140cm, while the curtain height depends on the specific application requirements
Curtain ready for installation
Material: Polyester TREVIRA Fabric
Color Selection: See Below Page
Fire resistance: B1 / DIN 4102
Each curtain package includes the proper hooks for hanging the curtain from the rail system.

A minimum order quantity (MOQ) policy is applied.

VELVET FR FABRIC SELECTION

Velvet FR collection is a premium fabric line made of real velvet (100% polyester TREVIRA CS) with fire resitance properties(DIN 4102. B1).
Subject to Minimum Order Quantity(MOQ).
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.

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.

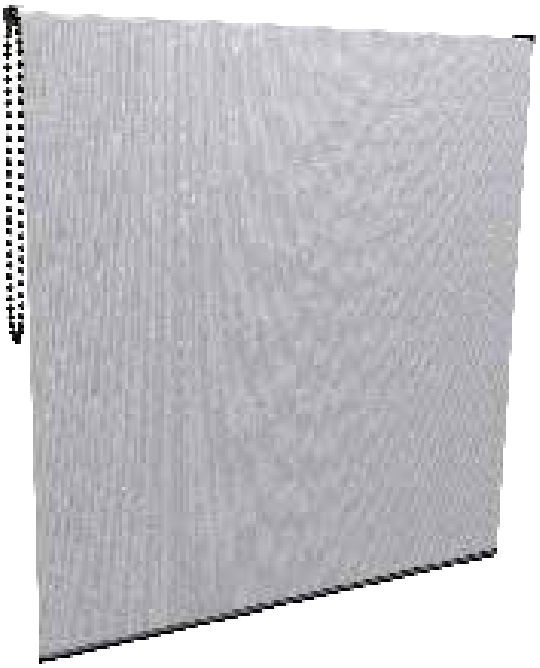
The selection of the perforation ratio and the size of the hole has been made after specialized investigation of its impact on sound absorption. The principle of operation is based on trapping sound at the back of the fabric.

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.

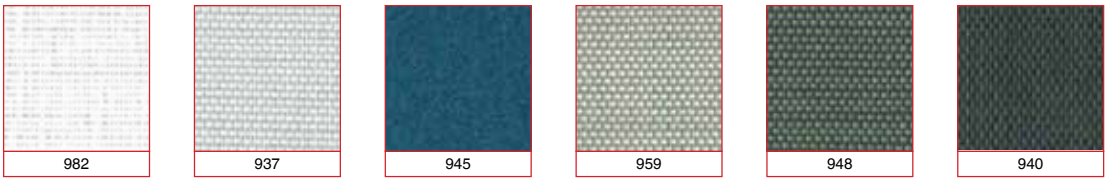


ACu.Reverb-Roller.Mesh
Acoustic Roller shades
made of special synthetic mesh fabric

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 - WOODSKIN

Acoustic curtains with a natural wood look

ACu.Reverb-Woodskin Acoustic curtains are designed to improve room acoustics while maintaining a clear architectural language inspired by natural materials and wood-based interiors. They are manufactured from high-density velvet fabric, offering effective sound absorption and controlled reduction of reverberation.

One side features a wood-effect printed surface, providing the visual warmth of wood without the acoustic limitations associated with rigid or reflective materials. The result is an acoustic solution with a strong wooden appearance, integrating naturally into spaces dominated by timber, neutral palettes, and biophilic design concepts, while remaining flexible and easy to implement.

ADVANTAGES

- Wood-effect architectural appearance
- Effective sound absorption and reverberation control
- Thermal insulation
- Sunlight control
- Easy and non-invasive installation
- Ability to achieve variable reverberation time

ACu.Reverb-Woodskin
Acoustic Wood Effect Curtains

TECHNICAL CHARACTERISTICS

The estimated weighted sound absorption coefficient can reach aw = 0.7, according to ISO 11654.
Acoustic performance depends on the curtain pleating and the distance from the wall.

Curtain supplied ready for installation
Material: Polyester velvet type fabric
Standard width: 1.5 m
Height: According to project requirements

WOODEN PATTERN SELECTION AND PREFERENCES

A selection of standard wood-effect designs is available, while custom wood simulations can be developed on request, allowing full alignment with specific architectural and material concepts.

WS- 001

WS- 002

WS- 003

WS- 004(=3730)

LEGAL NOTICE

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ALPHA ACOUSTIKI S.A. – Creating workspaces designed for comfort, focus, and acoustic well-being since 1980.

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Additional Acoustic Solution:

ACu-Noise *- Premium Noise-Insulating Curtain.*

SUSTAINABILITY
SEE OUR ACTIONS

Transform your space: tech@ALPHAcoustic.com

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Get in Touch

ALPHA ACOUSTIKI S.A.
EUID: ELGEMI.004207401000

T: +30 210 6779875

info@ALPHAcoustic.com
www.ALPHAcoustic.com

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