

CISILENT®



<dB

Noise Control – the easy Way

Flexible Sound Barrier for various Purposes

Introduction

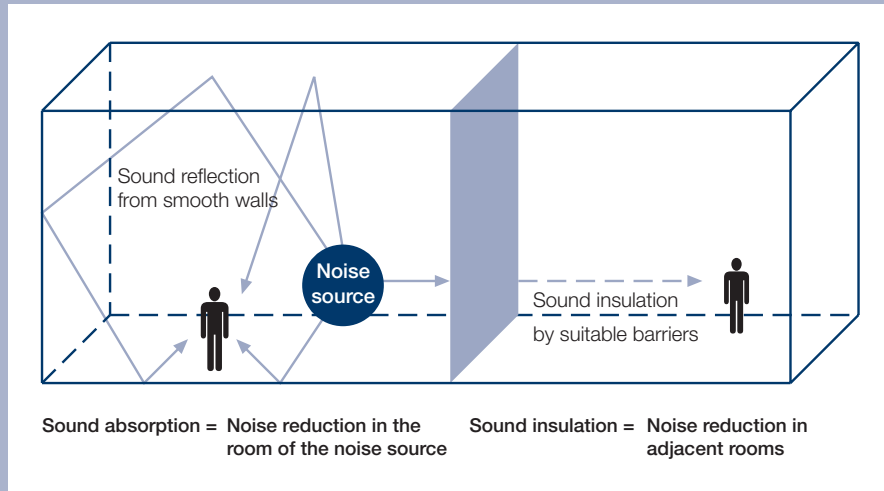
Rising environmental awareness and the knowledge of health damaging effects caused by intensive noise demand efficient countermeasures. In those cases where common products can only be used restrictedly, the CISILENT® sound barrier reveals its great advantages. This applies to indoor and outdoor locations, where spatial, technical, weight or other restrictions do not allow other options than CISILENT®.

The way CISILENT® works:

With CISILENT® sound-proofing problems can be solved efficiently. For the installation only little space is needed. Low transport weight and simple assembling also allow mobile applications.

The flexible CISILENT® sound barrier reaches a sound insulating value of $R_w = 25$ dB and thus meets the values as required in the German guideline for sound barriers along roads (ZTV-Lsw 88) – and this despite a fraction only of the area weight compared with the one of common noise barriers.

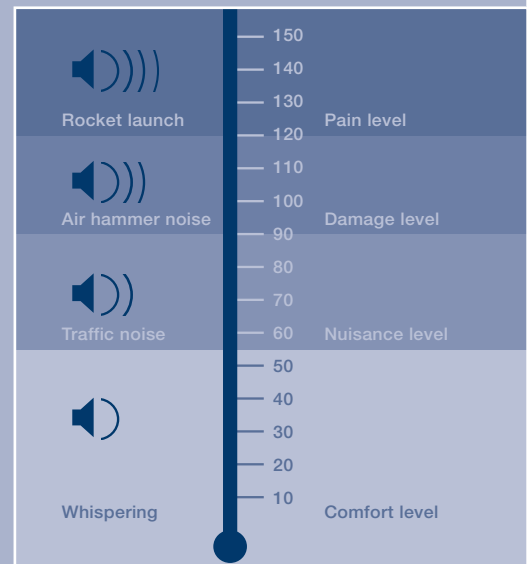
Massive elements of the same area weight as CISILENT® insulate noise less,

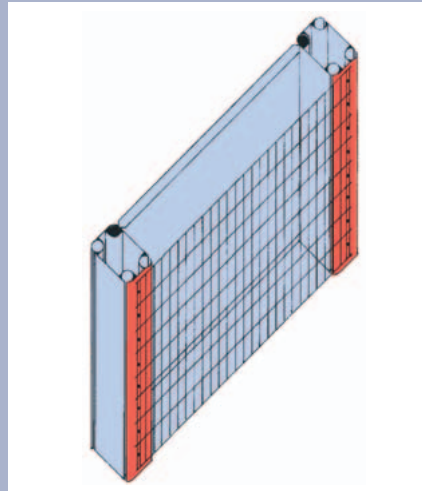
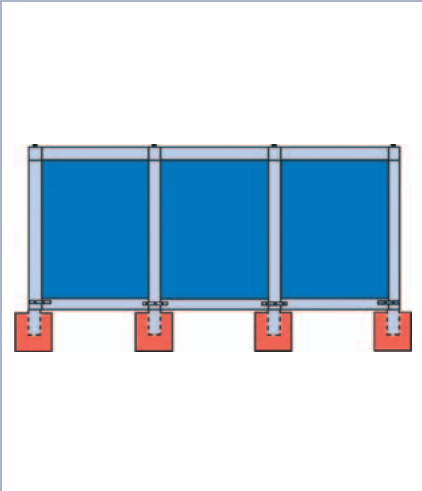


because they are more rigid and radiate sound themselves again from their outer surface.

The flexible CISILENT® however, fully uses the noise insulating effect of the area related mass. The advantages are based on its special design.

CISILENT® has been developed as modular system in order to enable a simple erection for different kinds of spatial requirements.



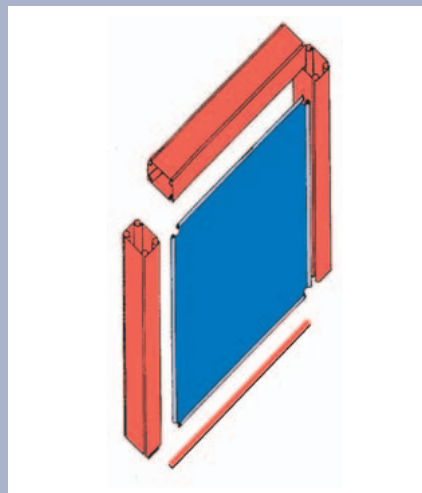
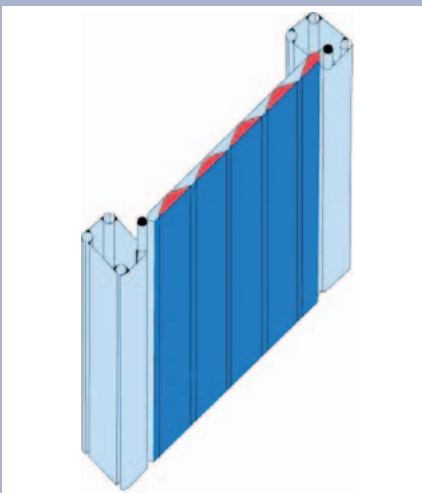


The flexible Sound Barrier for the outdoor Use

The textile construction made of high-strength polyester fabric consists of 3 layers which are connected with each other in a way that pockets for the intake of the filling material are produced. An additional coating protects against water, dirt and micro-organism. The fabric can be printed and perfectly be used for advertisement.

The filling Material

Already the unfilled textile construction provides a sound insulating value of 16 dB. By filling it with fire resistant mineral wool the sound insulating value is upgraded to 25 dB.



The load-bearing and adjusting construction

The flexible sound barrier can be fixed to the aluminium frame by means of a slot and key system.

Additional elements

Gratings for climbing plants, absorption elements or sheet-metal against vandalism can easily be fixed with self-tapping screws.

Module Principle of Construction

CISILENT® Applications

CISILENT® protecting against noise coming from an air conditioner.

Enclosures do not always have to be closed totally to achieve the positive effect required.





A custom-made solution with CISILENT® noise barriers is always possible. Here some examples:

In sensitive areas CISILENT® reduces noise coming from building sites.

CISILENT® guarantees low sound levels in rooms adjacent to noisy production machinery.

Noise emissions cause discomfort and health hazards.

CISILENT® meets all requirements concerning sound insulation and absorption.



CISILENT® Applications

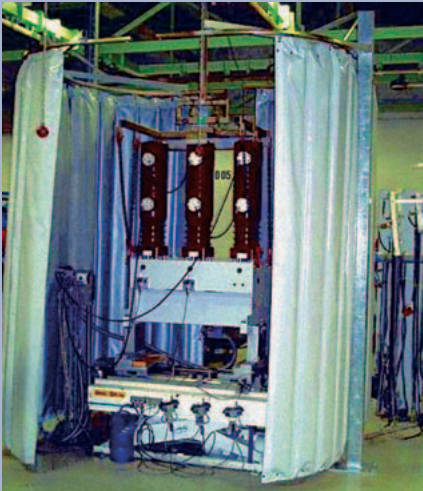
CISILENT® is good for the well being and fitness.

Immediately after the erection CISILENT® provides sound-proofing – wherever it is necessary:

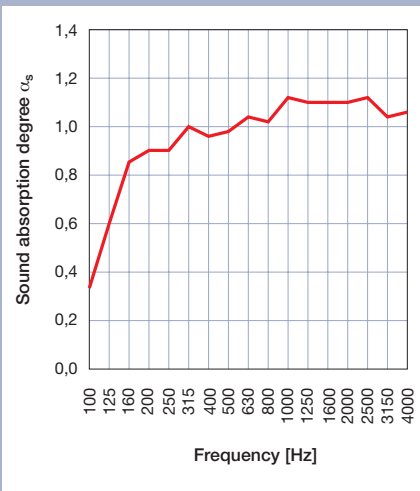
Near busy main roads, at sport facilities, open-air concerts, shunting yards, building sites, airports or indoors, e. g. in production halls etc..

However requested, the element pockets to be filled can be arranged in vertical or horizontal direction.

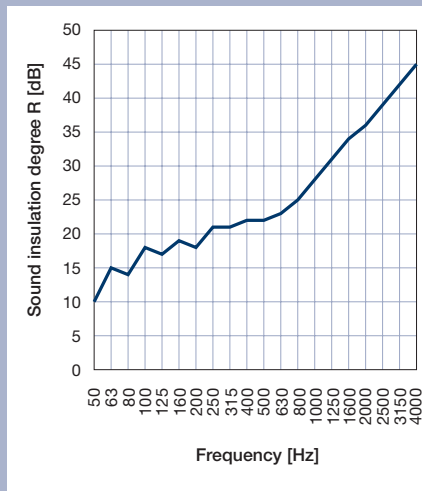




The varied possibilities of using CISILENT® compared with rigid sound barriers are its great advantage. Whether as curtain-like version with mineralwool filling in plant facilities or for the mobile use e.g. on building sites – in both situations a high insulation effect is achieved.



Sound absorption degree



Sound insulation degree

CISILENT® Material Characteristics

Material Characteristics

Membrane

| | |
|------------------|--|
| Fabric: | high-strength polyester |
| Coating: | double-sided soft PVC |
| Colour: | standard: white, others on request |
| Varnishing: | acrylic protective varnish or fluorine polymer varnish |
| Fire Resistance: | DIN 4102 B1 |
| Weight of empty | |
| Barrier: | approx. 2100 g/m ² |
| Rim Design: | tongue ø 10 mm |

Aluminium Frame

| | |
|------------|---|
| Type: | aluminium hollow profile with a groove at each corner |
| Outer | |
| Dimension: | 12 cm x 8 cm |

Special production on request,
alterations reserved.

German Patent 1999 56 669.0-53
US-Patent 6,609,591

Advantages of CISILENT®

- High sound insulation
- Low weight
- Flexible use
- Simple erection
- Easy transport
- Long life
- Manifold design varieties,
e.g. by printing
- Excellent value for money

Use in Industry

Enclosures and part enclosures for all kinds of acoustic sources, indoors and outdoors, cladding of surfaces etc..

Some examples:

- Motors
- Test stands
- Presses
- Welding equipment
- Punching devices
- Forging hammers
- Cutting machines
- Crushers
- Transportation (e.g. of bottles)

For further information on this issue
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