

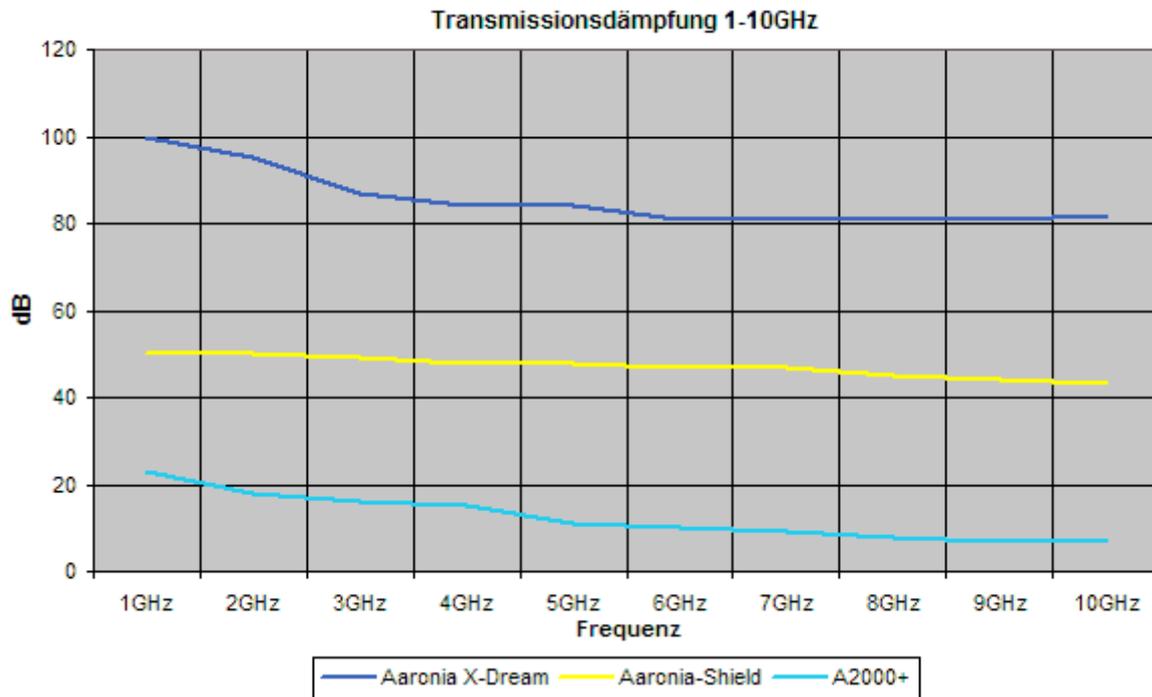
20dB Shielding Fabric A2000+



Technical Data:

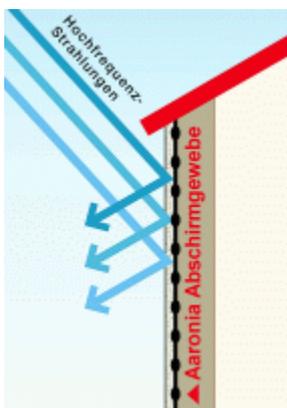
- Breathable
- Does not rot
- Frost resistant
- Foldable
- Bendable
- Can be coated over
- Can be layed in-wall or in concrete
- Replaces reinforcement fabric
- Simple handling, also for laymen
- Length per standard delivery unit: 10m oder 50m
- Web width: 1m
- Thickness: 0,5mm
- Mesh aperture: approx. 5mm
- Color: black
- Weight: approx. 200g/m²
- Material: stainless steel
- Quality ensurance system: according to TÜV CERT ISO 9001
- Shielding characteristic **static fields**: 99,5% to 99,95% (only WITH grounding!)
- Shielding characteristic **low-frequency electric fields**: 99,5% to 99,95% (only WITH grounding!)
- Shielding characteristic **high-frequency fields**: 99% to 99,9% (also WITHOUT grounding!)

Attenuation Curve:



Readings attest the excellent shielding capacities: The reduction/attenuation of high-frequency radiation, especially in the frequency range subject to pulsed signals, such as cellular phone network stations, amounts to 99% to 99,9%. Also, static and low-frequency electric fields that are emitted from all household cables and machines or from high-voltage lines can be reduced by up to 99,9%.

Application / Mounting:

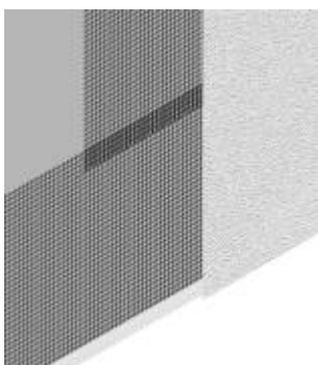


The various shielding systems that are currently on the market differ considerable when it comes to protection and cost effectiveness. Moreover, they are very often difficult to handle, not only for laymen but also for specialists; and they are mostly too expensive. In addition to that, users currently need TWO shielding systems since the available systems against high-frequency radiation do not offer protection against low-frequency radiation and vice versa.

Aaronia offers a cost-effective and easy-to-handle shielding system, especially for laymen: Our Aaronia Shielding Fabric A2000]. Our Aaronia Shielding Fabric A2000+ offer protection against high-frequency (HF) AND low-frequency (LF) radiation at the same time. The excellent shielding characteristics are the result of a fabric concept based on interwoven stainless steel fibers and a special deflection coating. The fabric is easy to handle and easy to mount. It can be folded or bended without damage, has high tensile strength, is frost-resistant, does not rot, is breathable and can be mounted in-wall or even in concrete. It is thus suitable also for exterior application and replaces the usual reinforcement fabric, thereby saving considerable costs.

Our Aaronia Shielding Fabric A2000+ can be used to protect you from local sources of radiation, such as cables or junction boxes and also to shield rooms or entire houses and buildings. It must be layed in parallel panels that must overlap approx. 15cm to form a closed area. Please note that the fabric does NOT have to be grounded when used against high-frequency radiation! In general, however, we do suggest grounding with our "grounding package" as this ensures protection against low-frequency electro smog stemming from power supply lines, high-voltage lines, etc.

Shielding of a room:



In order to achieve protection of a room, for example the bedroom, against high-frequency radiation, the room must be completely lined with the fabric. In case you only want to shield the source of low-frequency radiation (such as the junction box of your house or cables in the wall) you will only need to line a small area around the source with our fabric. Note: In cases of shielding against low-frequency radiation the fabric must be grounded! It is imperative that you use our "grounding package". For the floor you can lay the fabric beneath your carpet to make it invisible, or, if it is a new building under construction the fabric can be layed under the floor pavement. For walls, the fabric can be used like wall paper - pasted or bonded. Even easier than that is the mounting on walls made of plaster boards, wood, etc.. In those cases the fleece can be mounted with a stapler. In the same manner you can mount the fabric on your ceiling. Doors and architraves should be covered as a whole with the fabric. Thus, as soon as the door is closed, you will have a

seamless connection with the fabric on walls, floor and ceiling. As the fabric is black, it can elegantly be used as an invisible fly screen for the window area. Since the fabric can be rolled you can also apply it as a sunblind that can be used to shield the window. After installation the fabric can also be painted, be mounted with wall paper or covered with plaster to make it invisible. Our instruction manuals will enable even laymen to achieve a completely shielded room in in a short time.

Protection of a house or building:



Houses and buildings under construction should always be shielded on the exterior. In these cases, the fabric is used in the plaster as substitute for the reinforcement fabric. For the roof, the fabric should always be mounted directly underneath the vapor retarder. For the floor, the fabric should be layed in the plaster. ZPlease keep in mind that an optimum protection against high-frequency radiation can only be achieved if the entire area is lined! So when laying the fleece in walls, floor, and ceiling you should always plan with excess length so you can later connect the individual panels seamlessly!

Attenuation Chart Aaronia High-Performance Shielding Solutions:

Shielding Solution:	Frequency:	Attenuation in dB:	Attenuation Factor:	Attenuation in %:	Examples:
A2000+	1GHz 10GHz	20dB 10dB	100-fold 10-fold	99,0% 90%	Interior and Exterior Shieldings against low radiation levels
Aaronia-Shield®	1GHz 10GHz	50dB 43dB	100.000-fold 30.000-fold	99,999% 99,992%	Textile Applications (canopies, clothing, curtains etc.) against low and higher radiation
Aaronia X-Dream®	1GHz 10GHz	100dB 80dB	10.000.000.000-fold 100.000.000-fold	99,999.999.999% 99,999.999%	Indoor Shieldings, Metering Chambers against high and highest radiation

Note: With the attenuation factor dB, each increase of 10dB results in a tenfold increase of the value. Therefore, for example 100dB is ten times more than 90dB or 100 times more than 80dB etc.