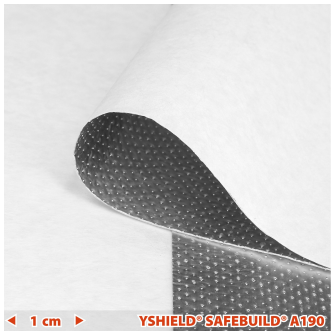
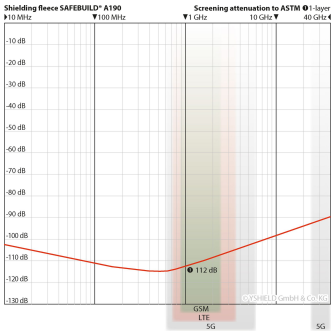
YSHIELD® A190 | Shielding fleece | Width 90 cm | 1 meter

Shielding laminated, highly stable fleece for a wide range of applications. Highly permeable to water vapor. 112 dB. For indoor use. Width 90 cm.







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Properties

Our A190 shielding fleece is a mechanically highly stable **cellulose fleece that is laminated on one side with a thick micro-needled aluminum foil**. The micro-needling with 200,000 tiny holes per square meter makes the material **highly permeable to water vapor**. The micro-holes are so small that they have no effect on the **sensationally high shielding attenuation of 112 dB** - the highest shielding attenuation value we have ever had in a series product. **Produced in-house in Germany**.

Application

Due to its **good surface stability, moisture resistance and high tear resistance**, A190 **can be used universally indoors in all conceivable applications**. Only suitable for loose laying if the aluminum layer is protected against mechanical damage.

Technical data

- **Width: 90 cm**
- **Length: by the meter / 50 m roll**
- **Shielding attenuation: 112 dB** / surface conductivity: 0.0018 Ohm (square resistance)
- **sd value: 0.012 m** = very high water vapor permeability
- Basis weight: 190 g/m² / Thickness: 0.28 mm
- Color: White / silver
- Tear resistance: 4400 (transverse) - 6800 (longitudinal) N/m
- Corrosion resistance: Corresponds to that of aluminum
- Materials: Cellulose pulp (FSC, EUTR), aluminum, polyester fibers (OEKO-TEX® certified), adhesive powder (OEKO-TEX® certified)

Processing

Substrate: Absorbent and chalky substrates must be pre-treated with our **primer GK5**. **Bonding the aluminum side towards the room:** Technically the best solution. All strips can be easily connected afterwards with the **GSX earthing tape**. Also the best solution with wallpaper replacement primer so that the fleece can be removed again if necessary. **Bonding the white side towards the room**: Visually the nicer solution that is also easy to rework. **Adhesive**: Adhesive for heavy wallpaper on the fleece side. Cellulose adhesive does not adhere to the aluminum side, we recommend our **PSA adhesive**, which creates a self-adhesive surface. Our aluminum products adhere very well when installed wet and dry. **Edge on edge or overlapping**: The sheets should be glued overlapping to achieve the best shielding result. Glue the overlap with our PSA adhesive. Finally, smooth with a fine putty. Alternatively, bond as usual, but this will result in minimal losses when shielding very high frequencies. **Contact materials**: Due to the aluminum layer, a neutral pH value of pH 4-9 must be ensured for all direct contact materials during processing.

Grounding

This product with an electrically conductive surface **has to be integrated into the functional-equipotential bonding (FEB)**. Please find suitable grounding accessories under "Grounding".

Shielding attenuation HF & LF

This product **shields high frequency electromagnetic fields (HF)**. Unless otherwise stated, the indicated dB-values apply to 1 GHz. Measurement from 600 MHz to 40 GHz according to standards ASTM D4935-10 or IEEE Std 299-2006. This product with an electrically conductive surface **shields low-frequency alternating electric fields (LF)**.

Laboratory & expert report of shielding attenuation up to 40 GHz

We have already invested in our **own professional EMV laboratory** years ago. We not only use it to create our laboratory screening reports but also to check each batch daily. Additionally, we have all our products checked by an **independent, well-respected expert**. Double checked for twice the safety. **Please find the reports above at the downloads**.