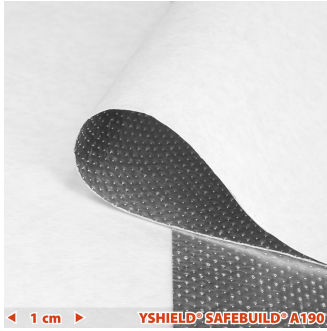
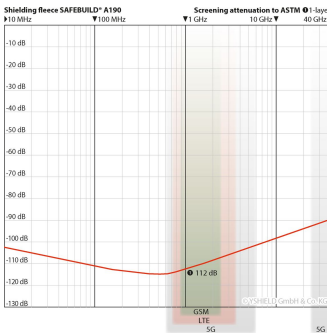


YSHIELD® SAFEBUILD A190 | Shielding fleece | Width 100 cm | 1 meter

Shielding laminated, highly stable fleece for a wide range of applications. Highly permeable to water vapor. 112 dB. For indoor use. Width 100 cm.



YSHIELD® SAFEBUILD® A190



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Properties

Our SAFEBUILD 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**, SAFEBUILD 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: 100 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)



TÜV-SÜD certification in progress

This shielding fleece is currently being tested by TÜV-SÜD. It is being tested for heavy metals, SVOCs and emissions in accordance with test specification TM-22 (issue 08-2020). Due to the absence of pollutants and emissions of all preliminary products, this test is passed with certainty. The test report can be found above in the downloads if confirmed.

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. **Butt-jointed or overlapping:** The sheets should be glued overlapping to achieve the best shielding result. Glue the overlap with our PSA adhesive. Finally, smooth and sand with a fine spatula. 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**.