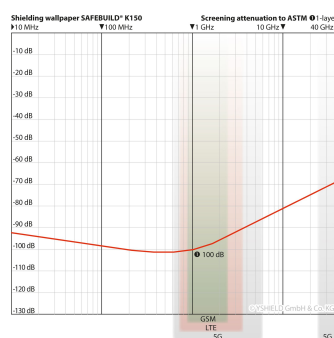
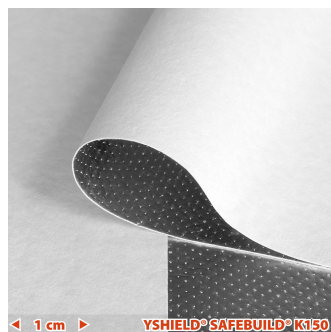


YSHIELD® K150 | Shielding wallpaper | Width 70 cm | 1 meter

Shielding laminated wallpaper for a wide range of applications. Highly permeable to water vapor. 100 dB. For indoor use. Width 70 cm.



YSHIELD GmbH & Co. KG
94099 Ruhstorf, Germany
www.yshield.com
info@yshield.de

Properties

Our K150 shielding wallpaper is a thin, surface-stable **wallpaper paper that is laminated on one side with a thin micro-needled aluminum foil**. The micro-needling with 200,000 tiny holes per square meter makes the material **highly permeable to water vapour**. The micro-holes are so small that they have no effect on the shielding attenuation of **sensationally high 100 dB**. **Produced in-house in Germany**.

Application

Due to its **good surface stability and moisture resistance**, K150 **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: 70 cm**
- **Length: by the meter / 50 m roll**
- **Shielding attenuation: 100 dB** / surface conductivity: 0.0018 Ohm (square resistance)
- **sd value: 0.02 m** = very high water vapor permeability
- Basis weight: 150 g/m² / Thickness: 0.24 mm
- Color: White / silver
- Corrosion resistance: Corresponds to that of aluminum
- Materials: Cellulose pulp, aluminum, 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 wallpaper 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**.