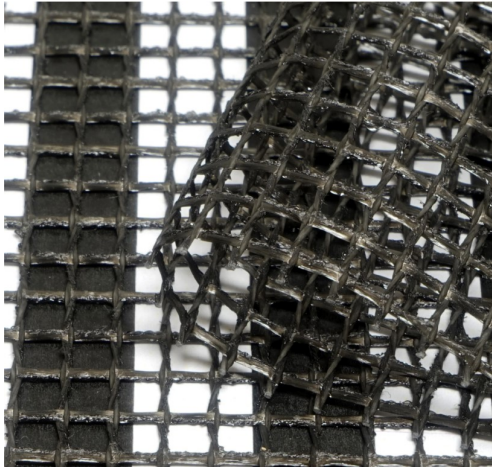


# RF GREEN®

## SM-10YA - TECHNICAL DATA

2024/02



**Reinforcement fabric as universal standard product (e.g. in ETICS, under plaster, loosely laid).**

**23 dB. Interior & Exterior. Width 39.37 in.**

### PROPERTIES

SM-10YA (ARM40) is a non-slip, dimensionally stable glass fiber mesh designed for extensive shielding of high-frequency (HF) and low-frequency electrical (LF) fields. This patented mesh incorporates stainless steel threads, ensuring reliable protection against alkaline attacks in plaster systems. Featuring an electrically conductive surface, it facilitates easy grounding and is audited and certified according to ETAG 400.

### APPLICATION

**Ideal for use as reinforcement fabric in exterior thermal insulation systems under plaster or interior applications.** Additionally suitable for loose laying in roof areas, underneath attached facades, under floor coverings, and more.

### PROCESSING

Processing (ARM40) is akin to conventional glass fiber fabric application. It must be pressed non-porously and wrinkle-free into freshly spread reinforcing material, lying in the upper third and completely covered by it. Overlapping between panels should be 10cm, ensuring coverage at building corners and diagonal reinforcement around openings. Grounding requires securely screwing the stainless steel tape GSS25 onto the surface across all panels.

### TECHNICAL DATA

- Width:** 39.37 in
- Length:** By the roll / 164.04 ft roll / 54.68 yards roll
- Attenuation:** 23 dB
- Mesh Width:** 3.5 x 4.0 mm
- Weight:** 180 g/m<sup>2</sup>
- Material thickness:** 0.45 mm
- Color:** Black
- Materials:** Glass fiber, stainless steel fibers, latex coating
- Maximum Elongation:** 3.9% (warp and woof)
- Maximum Tensile Strength:** 1750 N/5 cm (warp and woof)

### 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.

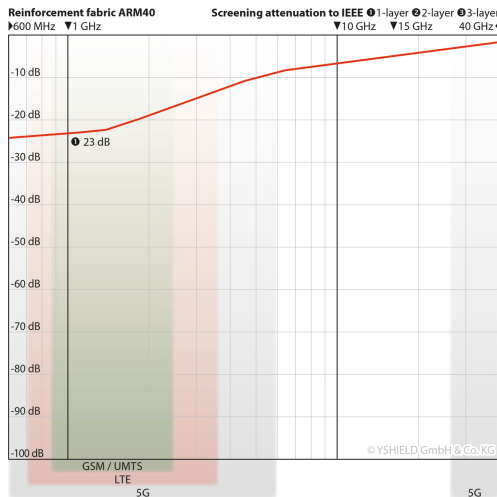
This product with an electrically conductive surface **shields low-frequency alternating electric fields (LF).**

### 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.

### READY FOR 5G

Some companies offer "special" 5G-products. This products shields all 5G-frequencies, even without advertising this! Find two gray bars in all shielding diagrams with the 5G frequency spectrum FR1 (600 MHz - 6GHz) and FR2 (24 GHz - 40 GHz).



**SM-10YA**  
RF Reinforcement Fabric