

beneficial environments^b

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Dear Customer,

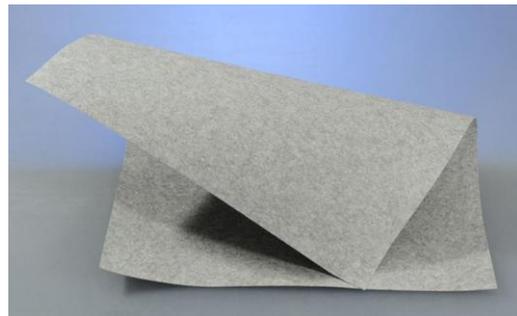
Welcome to the information sheet on the selection and installation of the absorbing wallpaper.

You have selected a product that is almost unique in that it shields by absorbing and not reflecting. This avoids unwanted and polluting internal reflections in the areas that are being shielded. [It also makes it feasible to successfully *only shield one wall* in a room (the one with the most radiation coming through) and not have to do all 4 walls to avoid the doubling the radiation by reflection and hotspots from the internal directions.]

Please find information and instructions for your wallpaper below.

EMC Shielding Fleece – EMF Absorbing Wallpaper - for shielding against high and low frequency fields.

- A cotton fleece with chopped carbon fibres with a low-outgas, non-irritating bonding agent
- 53cms wide and 10m long in each roll
- Has the handling qualities of a designer lining paper with a surface finish admired by interior designers
- non metallic
- non ferromagnetic
- breathable material according to DIN 53-122
- ecological – made in part from recycled materials
- used by building biologists and architects as part of a strategy for good air quality
- fire rating: flame retardant according to DIN 4102/B1 class A
- according to ASTM E84-97a
- suitable new construction and renovation projects
- ideal base for further decoration – takes paint well and is also strong enough to paper on top
- physical properties of non-woven fabrics
- high absorbing low reflective surface
- good shielding properties for electromagnetic fields
- once dampened with adhesive, the wallpaper will stretch over mildly uneven surfaces
- strong and durable
- earth connection required for best performance for low frequencies
- using a professional standard of decorating skill a very high standard of finish can be achieved.



Before ordering

1. Decide how many layers you would like. 1, 2 or 3. The more layers - the better the protection.
 - a. 1 layer needs 1-3 cms overlap at the joins to stop the microwaves leaking through. This means a small vertical double layer which will show on a smooth wall in some lighting conditions. This is the minimum cost option.

- b. 2 layers means enhanced shielding and a smooth finish but twice the amount of fleece/wallpaper
 - c. 3 layers – a reflective layer below the paper – a net, or aluminium layer in plasterboard or paper layer. *If you are going for this ask our advice first.*
 - d. Measure up and calculate lengths add 10 to 15% for wastage.
 - e. Order from www.beneficialenvironments.com
2. Select the adhesive:
 - a. EHS people can be sensitive to fungicides in some glues. Check contents before buying. Ordinary ready-mixed PVA wallpaper adhesive works well. There are low-chemical adhesives available if preferred
 - b. Calculate the quantity of adhesive required as per ordinary lining paper

Installation Instructions: (this assumes knowledge of how to put up ordinary wallpaper)

1. Prepare the wall surface, fill cracks and seal if needed.
2. Cut the fleece to the right length for the first “drop”
3. Apply the adhesive to the wall only.
4. Apply the dry fleece to the pasted wall and make sure that it’s stuck smoothly to the wall. All the air-bubbles should be removed.
5. For the connection to the earth or ground, stick a self-adhesive copper tape to the surface of the fleece as soon as the fleece is dry. Connect the copper tape to an earthing wire. If possible, use the copper tape once around the room. Anti-slug copper tape from a garden centre works. If convenient, take the skirting boards off and run the copper tape behind in order to hide them. If you are in any doubt on how to safely connect the earth consult an electrician. If a 3 layer system is used, earthing is achieved by contacting an earth pad to the aluminium layer. Please consult us on how to do this.
6. For decoration you can use another layer of ordinary wallpaper or wallcovering on top of the absorbing wallpaper or just simply paint straight on top of it.



4. Overlapping the wallpaper by 1cm.



5. Putting the copper tape around the room.

If you require any further help or information, please get in touch.