

New shielding materials for buildings



Business need

In construction, shielding from electromagnetic fields is usually implemented using metal cages, which is slow, expensive and burdensome in terms of added weight on the structure. In addition, the exponential increase in wireless and communication systems results in overexposure to electromagnetic radiation.



Solution overview

The proposed solution involves the direct use of composite building materials with shielding properties, thin and "stratifiable", such as cement mortar and plasterboard, capable of effectively replacing metal cages without reducing the level of shielding from electromagnetic fields, or integrating into existing panels.



Key benefit

- Ease of use vs traditional method
- Comparable performance vs traditional method
- Weight reduction on the structure
- Cost reduction

Contacts

giuseppe.ruscica@unibg.it

Target

Construction companies

Manufacturers of mortar, plasterboard and other building materials

PA, private companies with an interest in shielding sites

Development phase

0. Pre-seed

1. Research

2. MVP Testing

3. Patent request

4. Industrial scale-up

5. Ready for market launch

Keywords

Constructions

Shielding

Electromagnetic radiation



UNIVERSITÀ
DEGLI STUDI
DI BERGAMO