

ISO 3

THE 100% EFFECTIVE RFID SHIELD



GENERAL DESCRIPTION

ISO 3 is an innovative laminated covering designed to completely block RFID waves while preserving the connectivity of other wireless signals (Wi-Fi, GSM, home automation). Thanks to its shielding technology, it ensures full attenuation of RFID waves without interfering with other communications.

CHARACTERISTICS

- Attenuation: 100% of RFID waves.
- Full preservation of Wi-Fi, GSM, and home automation signals.
- Format: rolls of 99 cm width and 50 m length.
- Robust laminated material, tear resistant.
- Quick installation, similar to standard wall or floor coverings.
- Color: white, for discreet integration.

TYPICAL APPLICATIONS

- RFID shielding in retail, offices, laboratories, and sensitive spaces.
- Partitioning or wall covering requiring complete RFID isolation.

KEY BENEFITS

- 100% reliable RFID shield ensuring complete blocking of RFID signals.
- Simple and quick installation with no technical constraints.
- Seamless integration thanks to discreet white design.
- Professional format adapted for large-scale installations.

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DESCRIPTION - APPLICATIONS

- Laminate of paper / aluminum foil / PVC film / tear-resistant paper.
- RFID shield for electromagnetic isolation.

IMPRIMABILITÉ

- Offset (UV / conventional).
- Flexo (UV / conventional).

PHYSICAL PROPERTIES

- Thickness (ISO 534): 145 $\mu\text{m} \pm 12$.
- Basis weight (ISO 536): 157 $\text{g/m}^2 \pm 8$.
- Structure: Paper / PET-AL film / Paper.
- Tensile strength MD (ISO 1924-3/2/300): > 130 N/15 mm.
- Tensile strength CD (ISO 1924-3/2/300): > 80 N/15 mm.
- Bending stiffness MD (ISO 2493-1; 15°/10 mm): > 330 mN.
- Bending stiffness CD (ISO 2493-1; 15°/10 mm): > 140 mN.
- Opacity (ISO 2471): > 98 %.
- Whiteness front side (CIE D65, ISO 11475): > 130.
- Whiteness reverse side (CIE D65, ISO 11475): > 130.
- ISO brightness front side (ISO 2470-1): > 83 %.
- ISO brightness reverse side (ISO 2470-1): > 83 %.

STORAGE AND HANDLING

- Store in original packaging.
- Recommended conditions: 20 ± 5 °C and 50 $\pm 10\%$ RH.
- Shelf life: at least 3 years under these conditions.

CERTIFICATION

- FSC C005732

RF CHARACTERISTICS - SHIELDING EFFECTIVENESS (IEEE 299 METHOD)

Frequency	Attenuation (dB)
860 MHz	49
870 MHz	40
880 MHz	49
890 MHz	51
900 MHz	45
910 MHz	57
920 MHz	47

Frequency	Attenuation (dB)
930 MHz	44
940 MHz	49
950 MHz	52
956 MHz	53
960 MHz	47
980 MHz	61

Shielding effectiveness of ISOCOVER™ in the UHF band.

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GENERAL GUIDELINES

- Carefully read the entire manual before starting installation.
- Strictly follow each step to ensure RFID shielding effectiveness.
- The user is responsible for correct application of the product.
- All ISOCOVER® products have been certified as RFID shielding materials by the Emitech laboratory.

FUNDAMENTAL PRINCIPLE

To achieve effective RFID isolation, the entire area must be treated according to the Faraday cage principle.

Even a small uncovered gap will allow signal leakage.

Essential rule: mandatory overlap of strips by at least 2 cm.

APPLICATION ON WALLS AND CEILINGS

- Remove protruding elements (electrical outlets, shelves, etc.).
- Prepare and sand the surface.
- Recommended adhesives: METYLAN OVALIT TM (18 kg), Caparol CapaColl GK, Gewebe Kleber (16 kg), EUKALIN 1977 S.
We recommend these adhesives for their strong adhesion, both to the substrate and between the strips.
- Ensure that each strip overlaps by at least 2 cm.
- Extend 10 cm onto adjacent untreated ceilings or walls.
- Smooth carefully as you go to eliminate any air bubbles.

Note: reinforced concrete walls over 30 cm thick and metallic elements (armored doors, aluminum ducts, screws, nails, etc.) already act as RFID barriers.

DOOR TREATMENT

Doors are the most solicited areas and must be treated with special care.

Option 1: Covering

- Prepare the door and frame (cleaning, washing, sanding).
- Apply adhesive over the entire surface.
- Apply and unroll the covering from top to bottom, smoothing progressively.

Option 2: ISO Paint 26

- Prepare the door and frame (cleaning, washing, sanding).
- Apply one full coat of paint (approx. 1 L/door).
- Drying time: 4 h. Recoatable after 12 h.
- Recommended tools: 12 mm anti-drip roller, 13 mm woven polyester roller, polyester brush, pray gun.

Option 3: Metal doors

- They are naturally RFID-proof and do not require any additional treatment.

By following these instructions, you ensure optimal RFID isolation with the ISO 3 covering.

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1. PRODUCT AND COMPANY IDENTIFICATION

Product name: ISO 3

Use: RFID shielding laminate

Manufacturer: ISOFIELD

Address : 231 Boulevard Jean Jaurès, 92100 Boulogne-Billancourt, France

Phone : +33 (0)1 84 20 01 17

Email : contact@isocover.fr

2. COMPOSITION / INFORMATION ON INGREDIENTS

Laminate composed of paper, PET-AL film, PVC, and adhesive.

Hazardous substances: none according to current regulations.

3. HAZARDS IDENTIFICATION

Non-hazardous product under normal conditions of use.

No specific risk for human health or the environment.

4. FIRST AID MEASURES

- Inhalation: not applicable
- Skin contact: wash with soap and water in case of irritation
- Eye contact: rinse thoroughly with water
- Ingestion: seek medical advice if symptoms occur.

5. FIREFIGHTING MEASURES

Suitable extinguishing media: water, foam, carbon dioxide (CO₂), dry powder.

Possible thermal decomposition: CO, CO₂ fumes.

Protective equipment: self-contained breathing apparatus recommended.

6. ACCIDENTAL RELEASE MEASURES

Collect mechanically and dispose of according to local regulations.

7. HANDLING AND STORAGE

Handle with care to avoid tearing.

Store in a cool, dry place, protected from sunlight and humidity.

Recommended conditions: 20 ± 5 °C and 50 ± 10% RH.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

No specific measures required under normal conditions.

For cutting or industrial processing, provide local exhaust ventilation and protective gloves.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: paper/metal laminate

Color: white

Odor: odorless

Flash point: not applicable

Solubility: insoluble in water.

10. STABILITY AND REACTIVITY

Stable under normal conditions of use and storage.

Avoid prolonged exposure to heat (> 80 °C).

11. TOXICOLOGICAL INFORMATION

No known toxicity associated with the product.

Mechanical irritation possible from dust generated by cutting.

12. ECOLOGICAL INFORMATION

Non-biodegradable product.

No particular environmental hazard under normal conditions.

13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with local regulations.

Energy recovery possible.

14. TRANSPORT INFORMATION

Not classified as hazardous for transport.

15. REGULATORY INFORMATION

Product complies with applicable European directives.

No hazard classification applicable.

16. OTHER INFORMATION

The information above is based on our current knowledge and does not constitute a guarantee of specific properties.

The user remains responsible for ensuring the suitability of the product for the intended application.

ENGLISH VERSION OF THE OFFICIAL FRENCH PROCÈS-VERBAL N° EFR-25-004130

Only the original French edition of this procès-verbal is authentic.
Seule l'édition originale en français du présent procès-verbal fait foi.

The French PROCES VERBAL is valid for 5 years starting on October 16th, 2025

Applicant	ISOFIELD 231 Boulevard Jean Jaurès 92100 BOULOGNE-BILLANCOURT France
SIREN	835231085
Sample reference	ISO 3
Brief description provided by the applicant	Flexible film, with no fire-retardant treatment, composed of 45 g/m ² paper laminate, aluminium foil, 0.018 mm PVC film and 45 g/m ² paper.
Mass per unit area determined by the laboratory	153 g/m ² ± 10%
Thickness measured by the laboratory	0,15 mm ± 10%
Colour	White
End-use condition	RFID shielding in wall cladding

Standard of tests:

- **NF P 92-507 (2004)** - Building - Interior fitting materials - Classification according to their reaction to fire
- **NF P 92-501 (1995)** - Reaction to fire tests Radiation test used for rigid materials, or for materials on rigid substrates (flooring and finishes) of all thicknesses, and for flexible materials thicker than 5 mm

Classification obtained in the official Procès Verbal:

M1

Valid glued to any non-insulating M0 substrate

Valid for any application for which the product is not subjected to the CE marking.

Durability of the classification (NFP 92-512: 1986): Supposedly unlimited

Taking into account the criteria resulting from the tests described in the test report n°EFR-25-004130-EPI from October 24th, 2025.

This test report only demonstrates the characteristics of the test sample and does not prejudice the characteristics of similar products. It does not provide a certification of products within the Article L.433-3 of the Consumer Code and the Law of June 3rd, 1994.

Efectis France is approved for fire reaction tests according to the Decree of December 29th, 2016 amending the Decree of February 5th, 1959.

Saint-Aubin, on October 24th, 2025