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POLYESTER LAMINATES FOR CLEAN ROOMS AND COLD ROOMS

Vetroresina's glass-fibre-reinforced hygienic polyester laminates (GRP/FRP) are engineered for clean rooms and cold rooms-controlled environments designed to protect products, processes and people.

Vetroresina^{SpA}

Fiberglass laminates

Cleanrooms

In cleanrooms, airborne particles are kept to extremely low levels and conditions such as temperature, humidity and airflow are tightly regulated.

Typical applications include pharmaceuticals, pharmacy compounding, medical devices, biotechnology, food & beverage processing, electronics manufacturing and aerospace. Because every surface can become a source of contamination, wall and ceiling linings must be non-porous, easy to clean, resistant to wear and chemicals, and designed to minimise joints and dust traps.



Cold rooms

In cold rooms (chilled or frozen storage rooms), temperature-sensitive goods such as food and pharmaceuticals are preserved by maintaining a stable set point inside a thermally insulated, hygienic enclosure.

Here, materials must withstand moisture, repeated washdowns and thermal stress while ensuring hygiene and long service life.

Within this context, the **Vetroshield** range provides robust cladding solutions for walls, ceilings and linings, including modular hardwall cleanrooms, pharmacy compounding cleanrooms and explosion-proof cleanrooms, as well as cold rooms.

KEY BENEFITS INCLUDE:

- **Embossed, high-gloss surfaces** with excellent cleanability; UV/weather-resistant gelcoat;
- **Optional antimicrobial gelcoat** ANTIBAC* additive is available on request as a treatment for enhanced hygiene;
- **Minimal-joint wall coverings** to reduce points where dirt can accumulate;
- **Waterproof performance**, low thermal expansion, and high durability over time;
- **Resistance to corrosive agents** (also valuable in marine or salt-exposed environments);
- **Flexibility to suit curved structures**, plus high impact resistance and easy repair;
- **Suitability for renovating** existing cladding and for bonding to EPS/XPS and polyurethane insulation substrates.

For cold rooms, Vetroresina's GRP laminates are tested and suitable for **direct contact with food**.

THE REASONS TO CHOOSE VETRORESINA LAMINATES

EXPLORE THE ADVANTAGES FOR CLEANROOMS AND COLD ROOMS:
ENGINEERED FOR MAXIMUM HYGIENE, RESISTANCE, AND DURABILITY.



Easy to clean

Easy to sanitise and suitable for food contact, they do not release unwanted substances and help maintain high hygiene standards.



Strength and durability

They offer excellent resistance to corrosive agents and moisture: waterproof, with low thermal expansion and stable performance over time.



High impact resistance

Solid and reliable under stress, they withstand repeated impacts and mechanical loads—ideal for high-traffic areas and continuous handling.



Easy to repair

In the event of accidental impacts or minor damage, they can be restored quickly without compromising appearance or performance.



Adhesion compatibility

Suitable for cladding refurbishment and for bonding to insulation substrates such as EPS, XPS and polyurethane.



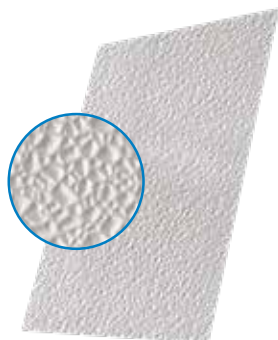
* **ANTIBAC** continuous antimicrobial protection (on request)

ANTIBAC additive is a silver based technology integrated into the gelcoat layer during production and evenly distributed across the surface.

It helps reduce microbial presence on high-touch areas and helps prevent subsequent colonisation, providing added protection throughout the product life cycle.

OUR PRODUCTS

Vetroshield *embossed*

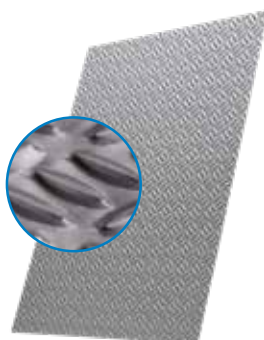


Anti-scratch



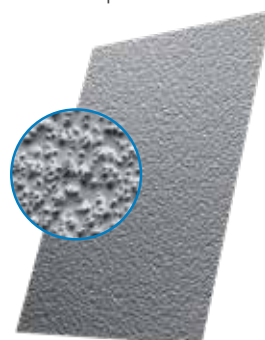
Hygienic

V-Streme



Anti slip

Vetro Grip

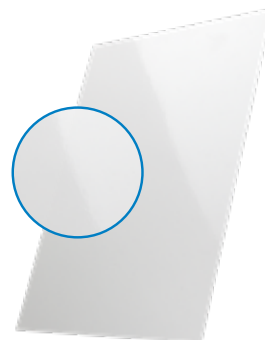


Anti slip



Wear resistant

Vetro Ceiling



Fire retardant



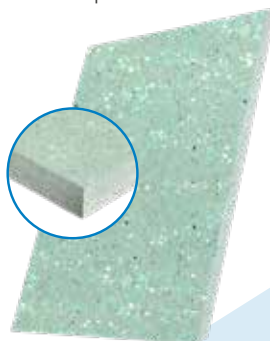
Sound absorbing

Vetro Guardian



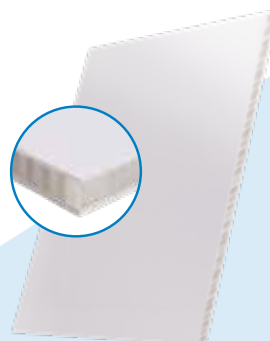
Fire retardant

Recomplax 700



Recyclable

Vetroformex PP core



Light



Hygienic

Vetroresina^{SpA}

Fiberglass laminates

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our fiberglass laminates
are 100% recyclable



Azienda certificata ISO 9001