

RenoCem

with FRP Euroclass E / Euroclass B,s2-d0

Description

RenoCem is a combined panel.

RenoCem is compliant with HACCP regulation and the connection is made with a seamless joint (HygiSeal, for more information see technical data sheet of HygiSeal 3.1).

It is composed of 2 parts :

- **Part I** = fiber cement board Euroclass A2,s1-d0
- **Part II** = FRP sheet Euroclass E / Euroclass B,s2-d0

Application

For renovation and new-build.

For box-in box projects, direct mounting on a metal stud structure by gluing.

For inner, non-supporting walls.

Advantages

- Water resistant and waterproof (NBN 492)
- Vapor permeable
- Environmentally friendly, no harmful gas emissions
- High strength and good resistance to accidental impacts
- Contribution to the stiffness of structures
- Sound-insulating
- Resistant to many chemicals
- Resistant to many living organisms (fungi, bacteria, insects, vermin,)

Performance

Temperature range: -60°C / +100°C (suitable profiles are required above 60°C)

Technical data

Part I = Fiber cement board

- | | |
|----------------------------|--|
| • Standard: | NBN EN 12467 |
| • Width: | 1.200 mm |
| • Usable width: | 1.196 mm |
| • Thickness: | 6 mm |
| • Maximum length: | 3 m |
| • Minimum standard length: | 2,60 m |
| • Tolerance: | thickness: ± 0,5 mm
width: ± 3 mm
length: ± 3 mm |
| • Weight: | 8.5 kg/m ² |
| • Panel material: | fiber cement |
| • Density: | oven dry, minimum ±1000 kg/m ³ , average ±1180 kg/m ³ |
| • Thermal conductivity: | λ = 0,19 W/mK |

- Coefficient of thermal expansion α : 6,5*10-6 m/mK
- Water vapor permeability, μ : 17-21
- Specific heat at 23 °C: 1.018 kJ/kgK
- Bending strength: longitudinal direction: 23 N/mm²
transverse direction: 17 N/mm²
- Modulus of elasticity: longitudinal direction: ca. 10.000 N/mm²
transverse direction: ca. 10.000 N/mm²
- Porosity: 0.4
- Fire rating: A2,s1-d0

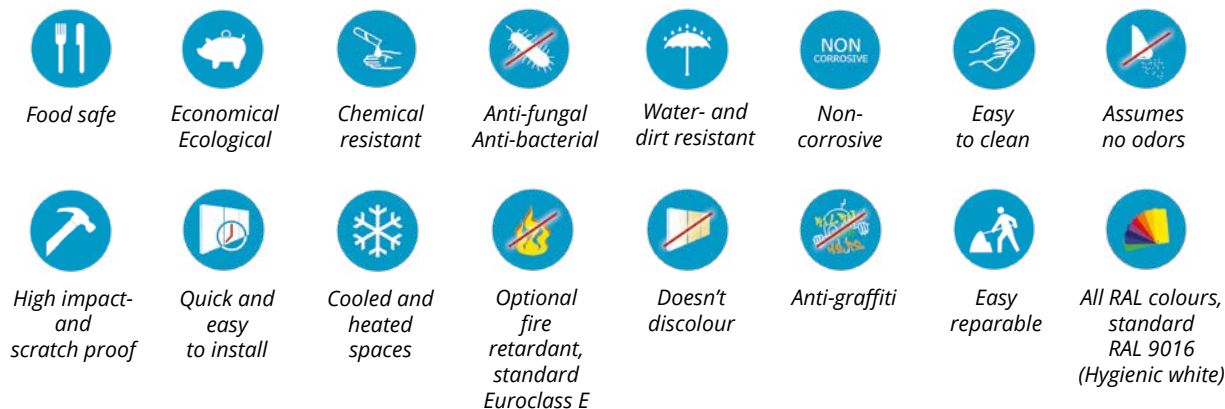
Part II = FRP sheet , glued on 1 side

The FRP sheet is a glass fiber reinforced composite polyester sheet, opaque, available with a smooth or embossed surface.

- Hardness: 30 - 40 (according to Barcol unit)
- Impact Resistance : 180 J/m
- Fire Classification : available in Euroclass E and Euroclass B,s2-d0
- Color : White - RAL 9016
- Surface structure : embossed or smooth
- Sides: straight
- Thickness : Euroclass E: embossed: 1.5 mm
smooth: 1.5 mm
smooth mat: 2 mm
Euroclass B,s2-d0: embossed: 1.5 mm
smooth: 1.5 mm
smooth mat: 2.3 mm

For additional technical information see the technical data sheet of FRP-sheets.

Characteristics



- RenoCem is certified B,s2-d0 when used with FRP B,s2-d0
- FOOD-SAFE & accepted by HACCP, IFS ,EU, BRC, FDA, USDA, ...

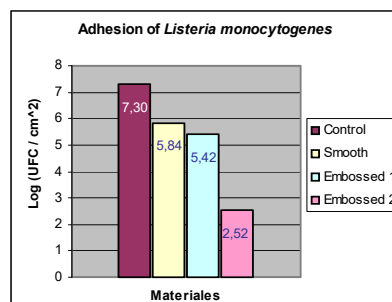
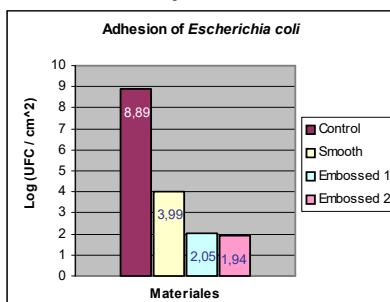
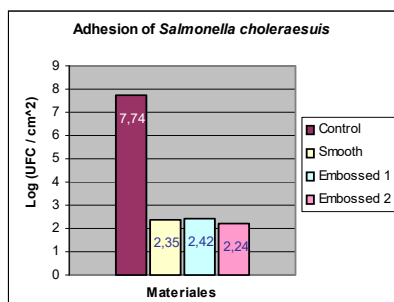


- Afsset (A+) – Greenguard certificate (lowest possible emissions in the interior)



'Bacterial adherence to covering materials in food industry' study
Performed by the university of Vigo (full report on demand)

- control material = RVS (AISI 304)
- smooth = FRP smooth surface
- embossed 1 = FRP embossed surface, discontinued
- embossed 2 = FRP embossed surface, the currently available FRP sheet



Consumption

- Hard Fix Glue / m²: 600 cc with line bonding
- Food Safe sealant White / m²: 150 cc
- HygiSeal / m: 40 - 50 cc

