Revision: 15/09/2020

InsuPanel 1-sided or 2-sided with FRP Euroclass E / B,s2-d0

Description

InsuPanel is a combined panel.

InsuPanel 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) or with an omega profile.

It is composed of 2 parts:

- Part I = PIR insulation board covered on both sides with a multi-layer, gas-tight laminate
- Part II = FRP sheet Euroclass E / Euroclass B,s2-d0

Application

For renovation and new-build.

Because of the weight ideal for the renovation of ceilings.

Advantages

- Resistant to many chemicals
- Resistant to many living organisms (fungi, bacteria, insects, vermin,)
- Sound-insulating

Performance

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

Technical data

Panel material:

Part I = PIR insulation board

Width: 1.200 mm

Thickness: 30 - 40 mm with straight edges

60 - 80 - 100 mm with hidden joint (tongue-groove)

Maximum length: 3 m

Tolerance: $\pm 2 \text{ mm} (<50 \text{ mm})$

± 3 mm (50-75 mm)

+5 / -3 mm (>75 mm)

width: $\pm 1 \text{ mm}$ length: $\pm 3 \text{ mm}$

PIR

Density: density of PIR is of 40 kg/m3 or 38 kg/m3

Thermal conductivity of the PIR foam (NBN EN 12667): λ = 0,023 ± 0,003 W/mk Thermal resistance: Rd = 1.30 m².K/W for 30mm Rd = 4.30 m².K/W for 100mm

Dimensional stability (NBN EN 1604): 48h, 70° C, 90%RV DS(70,90)3: $\Delta \in 1, b \le 2 / \Delta \in d \le 6$ 48h, -20° C DS(-20,-1)1: $\Delta \in 1, b \le 1 / \Delta \in d \le 2$

Compressive strength (strength at 10% deformation, NBN EN 826): CS (10\Y)150 ≥ 150 kPa (1,5 kg/cm²)

Tensile / flexural strength: TR80 \geq 80 kPa Classification of Fire Reaction: C-s3,d0 or B-s2,d0

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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

available in Euroclass E and Euroclass B,s2-d0 Fire Classification:

White - RAL 9016 Color: Surface structure: embossed or smooth

Sides: straight

Thickness: Euroclass E: embossed: 2.3 mm

> smooth: 2 mm smooth mat: 2 mm

Euroclass B,s2-d0: embossed: 2.3 mm

smooth: 2.3 mm smooth mat: 2.3 mm

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

Characteristics



Food safe



Economical Ecological



Chemical resistant



Anti-fungal Anti-bacterial



dirt resistant



Noncorrosive



Easy to clean



no odors



High impactand scratch proof



Quick and easy to install



Cooled and heated spaces



fire retardant, standard



Optional Euroclass E



Doesn't discolour



Anti-graffiti



Easv reparable



All RAL colours, standard RAL 9016 (Hygienic white)

FOOD-SAFE & accepted by HACCP, IFS ,EU, BRC, FDA, USDA, \dots











compliant

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

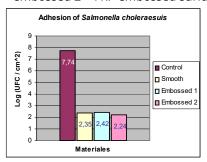


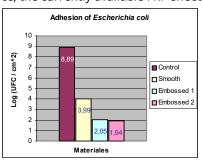


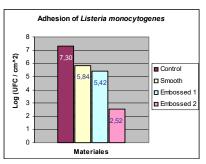


'Bacterial adherence to covering materials in food industry' study Performed by the university of Vigo (full report on demand)

- 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

Mounting

- Glued to the surface with Hard Fix Glue
- Joints made by HygiSeal (seamless joint) or with an omega profile
- For ceilings an additional nylon plug is used

