

## **RamPanel**

### **with CleanSheet (FRP) Euroclass E / Euroclass B,s2-d0**

#### **Description**

RamPanel is a cement-based support laminated with Polysto CleanSheet.

RamPanel 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** = Polysto CleanSheet (FRP) 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<br>width: ± 3 mm<br>length: ± 3 mm                      |
| • Weight:                  | 8.5 kg/m <sup>2</sup>   |
| • Panel material:          | fiber cement  |
| • Density:                 | oven dry, minimum ±1000 kg/m <sup>3</sup> , average ±1180 kg/m <sup>3</sup> |
| • Thermal conductivity:    | λ = 0,19 W/mK   |

- Coefficient of thermal expansion  $\alpha$ : 6,5\*10-6 m/mK
- Water vapor permeability,  $\mu$ : 17-21
- Specific heat at 23 °C: 1.018 kJ/kgK
- Bending strength: longitudinal direction: 23 N/mm<sup>2</sup>  
transverse direction: 17 N/mm<sup>2</sup>
- Modulus of elasticity: longitudinal direction: ca. 10.000 N/mm<sup>2</sup>  
transverse direction: ca. 10.000 N/mm<sup>2</sup>
- Porosity: 0.4
- Fire rating: A2,s1-d0

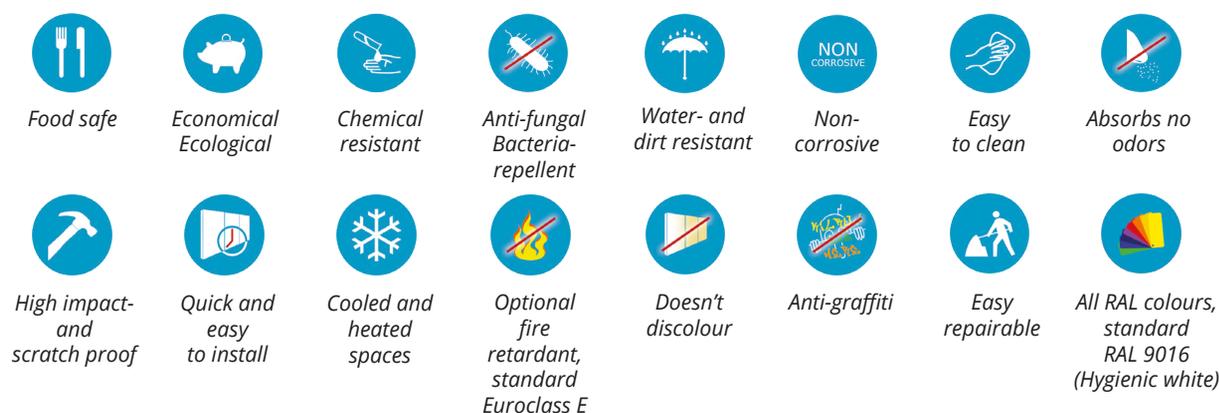
## Part II = Polysto CleanSheet , glued on 1 side

The Polysto CleanSheet 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: smooth: 1 mm  
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 the Polysto CleanSheet.

## Characteristics



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



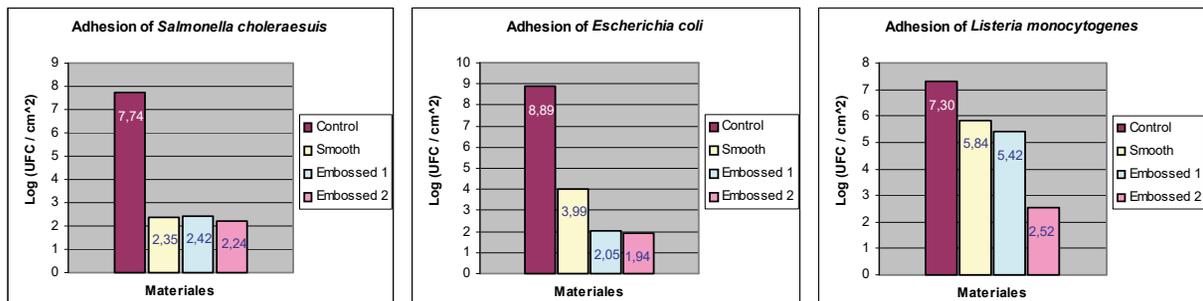
- Afsset (A+) – Greenguard certificate (lowest possible emissions in the interior)



'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 = CleanSheet smooth surface
- embossed 1 = CleanSheet embossed surface, discontinued
- embossed 2 = CleanSheet embossed surface, the currently available CleanSheet



### Consumption

- Hard Fix Glue / m<sup>2</sup>: 600 cc with line bonding
- Food Safe sealant White / m<sup>2</sup>: 150 cc
- HygiSeal / m: 40 - 50 cc

### Packaging

6mm + 1,5mm CleanSheet: 35 panels/pallet  
9mm + 1,5mm CleanSheet: 35 panels/pallet

### Average installation time

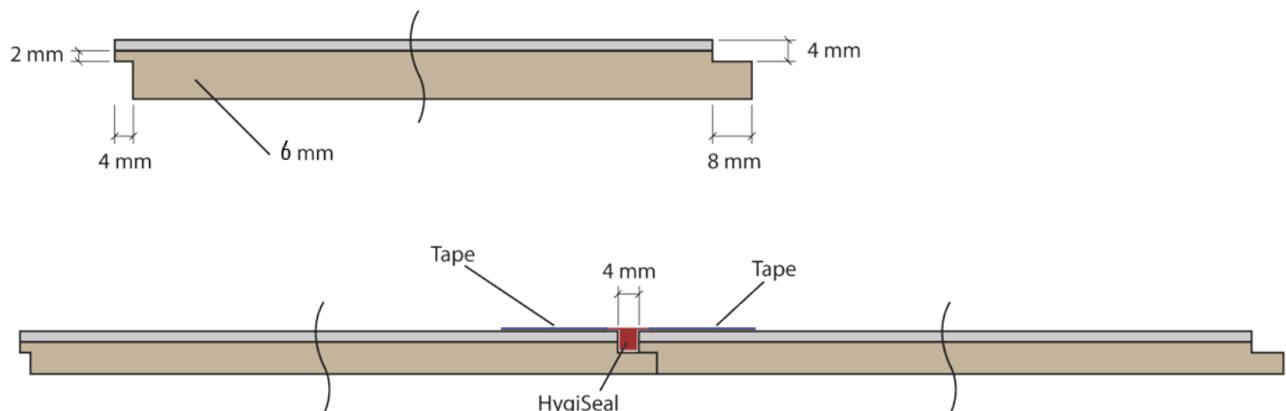
standard profiles, caulking inclusive, cutting work exclusive

#### New build

40 m<sup>2</sup> / day / 2 installers

#### Renovation

30 m<sup>2</sup> / day / 2 installers



**RAMPANEL**



**BEFORE**



**AFTER**

