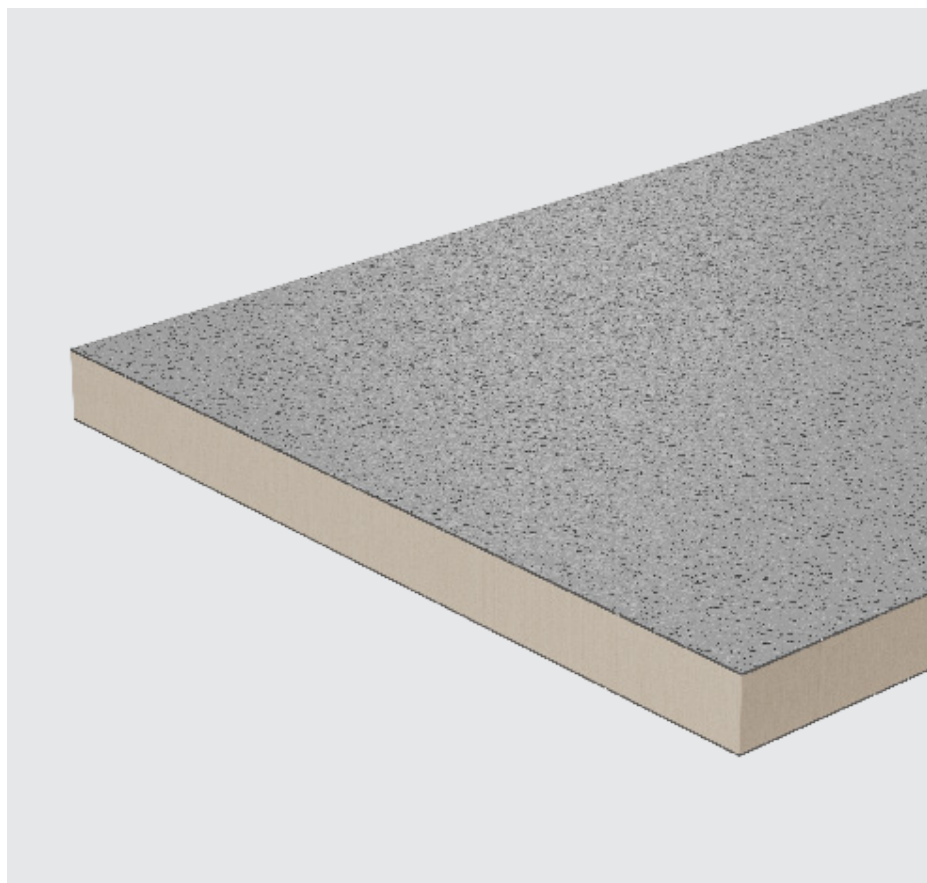


Insulation



Panel PIR-ALU 45



- Light panels with great rigidity.
- Easy to handle, to cut and to assemble.

CE


Kingspan[®]

Panel PIR-ALU 45

Description

- Rigid polyisocyanurate (PIR) foam panel coated on both sides with an embossed aluminium foil.

- Light panels with great rigidity.
- Easy to handle, to cut and to assemble.

Applications

- Manufacture of pre-insulated ducts for air distribution and/or ventilation systems, heating and for air-conditioning equipment (HVAC).
- Railway application for ventilation ducts.

Presentation

- Dimensions: 4000 x 1200 mm.
**For other dimensions, please contact the technical department.*
- Thickness: 10, 20 and 30 mm.

Advantages

- Low water absorption due to the closed cell structure of polymer.

| Properties | Class according to EN 14308* | Standard | Units | Specified values |
|--|-------------------------------|------------------|---------|--|
| Declared Coeff. Thermal Conductivity | $\lambda_D, 10^\circ\text{C}$ | EN 12667 | W/(m·K) | 0,023 |
| Dimensional stability 48h 70°C & 90%RH | DS(TH)3 | EN 1604 | % | $\Delta\epsilon_l, \Delta\epsilon_b \leq 2$ $\Delta\epsilon_d \leq 6$ |
| Dimensional stability 48h -20°C | DS(TH)3 | EN 1604 | % | $\Delta\epsilon_l, \Delta\epsilon_b \leq 0,5$ $\Delta\epsilon_d \leq 2$ |
| Water absorption | WL(T)1 | EN 12087 | % | ≤ 1 |
| Reaction to fire | - | EN 13501-1 | - | C-s2, d0 |
| R1 (thickness 10-20 mm) | - | EN 45545-2> 2020 | - | HL1, HL2 and HL3 |

* EN 14308:2009+A1:2013 and EN 13403:2003

Properties Railway Application (thickness 10-20 mm)

| | Application Standard | Hazard levels |
|----------------|----------------------|------------------|
| R1 Requirement | EN 45545-2: 2020 | HL1, HL2 and HL3 |

Thermal Properties

| | | | |
|--|------|------|------|
| Thickness (mm) | 10 | 20 | 30 |
| Thermal resistance (m ² ·K/W) | 0,40 | 0,85 | 1,30 |



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