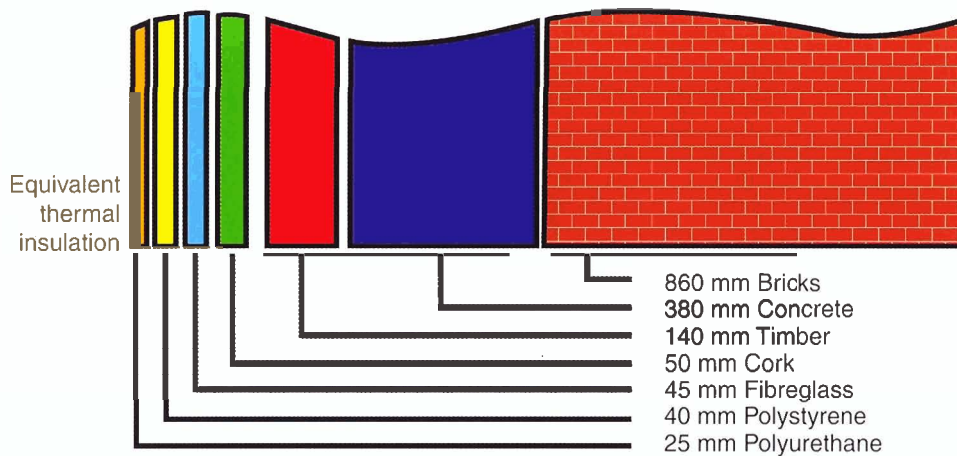


A4.3 INSULATION

Composed of rigid polyurethane foam, self-extinguishing in accordance with current European standards

COMPARATIVE TABLE OF INSULATING MATERIALS



- Reaction to fire Class B2 or B3 in terms of DIN standard 4102 part 1
- Average density $40 \text{ kg/m}^3 \pm 10\%$
- Compression resistance $\geq 11 \text{ N/cm}^2$ (at 10% deformation)
- Resistance to stretching $\geq 1 \text{ N/cm}^2$
- Resistance to cutting $\geq 1 \text{ N/cm}^2$
- Coefficient of thermal conductivity $\lambda=0.022 \text{ Kcal/m.h.}^\circ\text{C}$
- Non-hygroscopic because made up of over 95% closed cells
- Coefficient of heat transmission:

For single- and double-skinned roofing panels

Thickness (mm)	30	40	50	60	80	100	120
Coeff. K ($\text{W/m}^2\cdot^\circ\text{C}$)	0,55	0,44	0,36	0,31	0,25	0,20	0,16
Coeff. K ($\text{kcal/h}\cdot\text{m}^2\cdot^\circ\text{C}$)	0,48	0,38	0,32	0,27	0,22	0,17	0,13

For single- and double-faced walling panels

Thickness (mm)	30	40	50	60	80	100	120	150
Coeff. K ($\text{W/m}^2\cdot^\circ\text{C}$)	0,64	0,50	0,40	0,34	0,26	0,21	0,18	0,14
Coeff. K ($\text{kcal/h}\cdot\text{m}^2\cdot^\circ\text{C}$)	0,57	0,44	0,35	0,30	0,23	0,18	0,15	0,12

A4.4 LOAD-BEARING CAPACITY

This depends on the type of metal bearing surface, its thickness and the thickness of the layer of thermal insulation, as stated in the tables in the specific product catalogues. Load-bearing capacities refer to the