

Aluthermo® 21mm:



Technical specification

Insulating material that works by reflection and consists of two layers separated by a honeycomb structure of air bubbles enclosed in a fireproofed (fire-retardant) polyethylene film, which is covered on both sides by a 30-micron thick foil of pure aluminium that has been polished and treated against oxidation.

The obtained complex is semi-rigid and consists of the following successive layers:

1. 99% pure aluminium film, 30 microns thick.
2. Fire-retardant polyethylene film containing dry and stable air bubbles, diameter 30mm, height 12mm.
3. Fire-retardant polyethylene film containing dry and stable air bubbles, diameter 30mm, height 12mm.
4. 99% pure aluminium film, 30 microns thick.



The various layers must be thermally welded together over their full surface areas.

Fire protection class: M1

Thickness: 21mm

Weight: +/- 620 gr / m²

Equivalent thermal resistance: $R = 4.873 \text{ m}^2 \cdot \text{K}/\text{W}$ according to the Report issued by the Liege University Thermodynamics Laboratory, entitled "Radiated heat exchange between two walls separated by reflective insulation" ("*Echanges de chaleur radiatifs entre deux parois séparées par un isolant réfléchissant*").