

## Aluthermo® 7mm:



### 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 10mm, height 4mm
3. Fire-retardant polyethylene film containing dry and stable air bubbles, diameter 10mm, height 4mm
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: 7mm

Weight: +/-550 gr / m<sup>2</sup>

Permissible load: 250 kg / m<sup>2</sup> at 10% deformation

Equivalent thermal resistance:  $R = 2.639 \text{ m}^2 \cdot \text{K/W}$  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*").