

OVER-FOIL 311⁺

Over-foil 311⁺ is the eco-friendly, certified **pure aluminium** reflective insulation. Consisting of **7 layers** in total, it has the 2 outer faces of **pure aluminium** protected and reinforced with net; the 5 inner layers are additional reflective films, wadding layers and PE foam film. Tested according to the new **UNI EN 22097** standard, it has a reduced thickness but offers good performance in terms of insulation.

+ eco-friendly

Over-foil 311⁺ is produced with a focus on sustainability. Being made of materials suitable for recycling and manufactured with a high percentage of recycled material reduces environmental impact. Thanks to the volume of Over-foil rolls, **transport is also reduced by more than 6 times** compared to times that of a rigid panel insulation with the same performance.

+ made in Italy

Over-foil 311⁺ is produced in the new Over-all factory in Arese (Mi) and the raw materials used for its manufacture come from companies in northern Italy.



ADVANTAGES



GOOD THERMAL INSULATION

Efficient in both summer and winter and with vapour barrier function.



LOW ENVIRONMENTAL IMPACT

Almost km 0 production and high percentage of recycled material



REDUCED VOLUMES

Reduced transport volumes and optimised storage space.



QUICK AND EASY INSTALLATION

Clean, easy to work with, rot-proof and lightweight



REDUCED THICKNESSES

Larger walkable area



Technical Specifications

| | |
|------------------------------------------------------------------------------------------------------|--------------------------|
| Number of layers | 7 |
| Roll height | 150 cm* |
| Roll length | 20 m* |
| Roll length | 30 m ² |
| Roll diameter | approx. 45 cm |
| Weight | 430 g/m ² |
| Roll weight | approx. 13 Kg |
| Nominal material thickness | 14 mm |
| Thermal resistance of "Core" material only (UNI EN 22097 - 12667) | 0,457 m ² K/W |
| Emissivity of external faces after ageing (UNI EN 22097) | 0,05 |
| Thermal resistance in wall: | |
| - single layer in single cavity | 1,12 m ² K/W |
| - single layer in double cavity | 1,79 m ² K/W |
| Thermal resistance in the roof: | |
| - single layer in single cavity | 0,91 m ² K/W |
| - single layer in double cavity | 1,36 m ² K/W |
| Thermal resistance in false ceiling on the cold side (e.g. on pilotis (piers) floor, cellars, etc.): | |
| - single layer in single cavity | 1,38 m ² K/W |
| - single layer in double cavity | 2,29 m ² K/W |
| Vapour diffusion coefficient "μ" | 90.000 |
| Fire reaction class | under certification |
| * tolerance ±2% | |

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In order to correctly enter both Over-foil 311+ and the air cavities in contact with the Over-foil low-emissivity foil into the calculation software, please request the technical data of ex-law 10 by sending an email to info@over-all.com.

SPECIFICATION ITEM

A reflective insulation material consisting of 7 layers in total type **Over-all Over-foil 311⁺**. The material has the 2 outer faces of pure aluminium protected and reinforced with net; the 5 inner layers are additional reflective films, wadding layers and PE foam film. The material is stitched at the edges and has a layer sealing system with plastic threads that prevents excessive opening during cutting, thus ensuring uniform thickness and a consequent reduction in thermal bridges. The material has a nominal thickness of 14 mm and has the following technical characteristics certified in accordance with the new UNI EN 22097 standard: **Thermal resistance** of the 'Core' material alone equal to **0.457 m²K/W**, **emissivity** of external faces equal to 0.05 and vapour diffusion **coefficient μ** equal to **90,000**.