OVER-ALL
isolanti termoacustici

Energenetically perfect
thermoreflective insulation

100% MADE IN ITALY

General Catalogue

About us

Over 20 years of innovation, for a sustainable, zero-kilometer future

With **over 26 years** of experience in the market, Over-all is an Italian company that looks to the future with a commitment to developing cutting-edge solutions for energy efficiency and environmental protection.

Located in Arese, we have recently **started producing reflective insulation** with a high recycled content, the result of a production process that combines innovation and respect for our planet. Our products are designed to meet the needs of customers and building designers, who can count on insulation solutions that combine high quality, sustainability and the guarantee of a **Made in Italy** product.
Our goal is to provide materials that help reduce the energy consumption of buildings, improving thermal performance and reducing environmental impact. All our reflective insulation is designed to guarantee energy savings while promoting more sustainable and responsible architecture.

For several years, Over-all has been the only reflective insulation company **associated with ANIT** (National Association for Thermal and Acoustic Insulation) and **CTI** (Italian Thermotechnical Committee) and collaborates as an expert for Italy in **CEN** (European Committee for Standardisation) working groups.

Over-all is not only synonymous with quality and innovation, but also with attentive and **dedicated customer service**. Our philosophy is to support industry professionals at every stage of the project, offering customised solutions and qualified technical support.

At Over-all, we believe that true value is measured not only in the products we offer, but also in the service and support we provide every day to customers and building designers, such as:

- support for thermal engineers in assessing the stratigraphy to be implemented.
- thermo-hygrometric verification of the structures to be insulated.
- acoustic calculation for the insulation of impact noise.
- on-site assistance during the installation of materials
- training through technical seminars organised in partnership with professional associations or at distributors.

Just in time warehouse
At its operational headquarters in Arese, Over-all has a warehouse with a large stock of its main insulating materials.

With approximately 20,000 square meters of products always available, and using leading couriers, Over-all is able to deliver very quickly throughout Italy and internationally.

That's why we are committed to being a reliable and innovative partner in every project, working together to build solutions that stand the test of time.

By choosing Over-all, you are choosing the future of sustainable construction.


OVER-ALL
OVER-FOIL
Multistrato 10

When can a material be defined as eco-sustainable?

A material is eco-sustainable when its impact on the environment is very low.

All stages of its life cycle must be analysed: **raw materials, production, storage, transport, use, disposal and recycling.**

RAW MATERIALS

The raw materials used in OVER-ALL insulation are almost entirely locally sourced, as they are all supplied by companies in northern Italy.

PRODUCTION

The production of multi-layer reflective insulation has a very low environmental impact and the **new production plant** has been installed at the **new headquarters in Arese**. Production waste is minimal.

STORAGE

Over-foil insulation is supplied in lightweight rolls, with very low volume and weight. **One pallet** contains more than **100 m²** and occupies a volume of **ONLY 2 m³**; the volume required to store the same quantity of rigid panel insulation with the same performance is more than 6 times greater.

TRANSPORT

Thanks to the reduced volume of Over-foil insulation, **transport is also reduced by more than six times** compared to rigid panel insulation with the same performance. Heavy commercial vehicles alone are responsible for 23% of the greenhouse gas emissions of the transport sector.

USE

Over-foil insulation is **easy to work** with and does not require special tools or heavy machinery for installation. It is a **clean** product that **does not fray** or **release substances that are harmful** to the environment or people, and **does not cause irritation** during installation, so **no protective equipment is required**. The special composition of the materials and the **ease of installation** allow them to be installed even in the most difficult places, **drastically reducing waste** and therefore the waste of material as well as **thermal bridges**.
OVER-ALL insulation allows you to save up to 90% of the energy used for heating and cooling the building in which it is installed. They have a very long average life span, at the end of which the energy savings and CO2 emissions are vastly superior to those used for its production, transport and installation.

END OF LIFE: DISPOSAL AND RECYCLING

OVER-ALL products are **made with a high percentage of recycled material** and are **entirely recyclable**.

Main advantages...

There are several advantages obtained from insulating structures with Over-all insulation

Over-all reflective insulations guarantee:

1. inner walls warmer in winter and cooler in summer
2. less convective motions within the environment
3. improved living comfort with same internal temperature
4. improves the efficiency of heating systems

5 Air barrier

During the winter season, by pressure difference, air within the environment is “pushed” towards the outside.
Over-all thermoreflective insulations are a perfect barrier to air which prevents rise of mold and condensation.

6 NO thermal bridges Insulation continuity

The flexibility of thermoreflecting materials and the type of application insures isolated structures with maximum continuity, avoiding thermal and acoustic bridges.

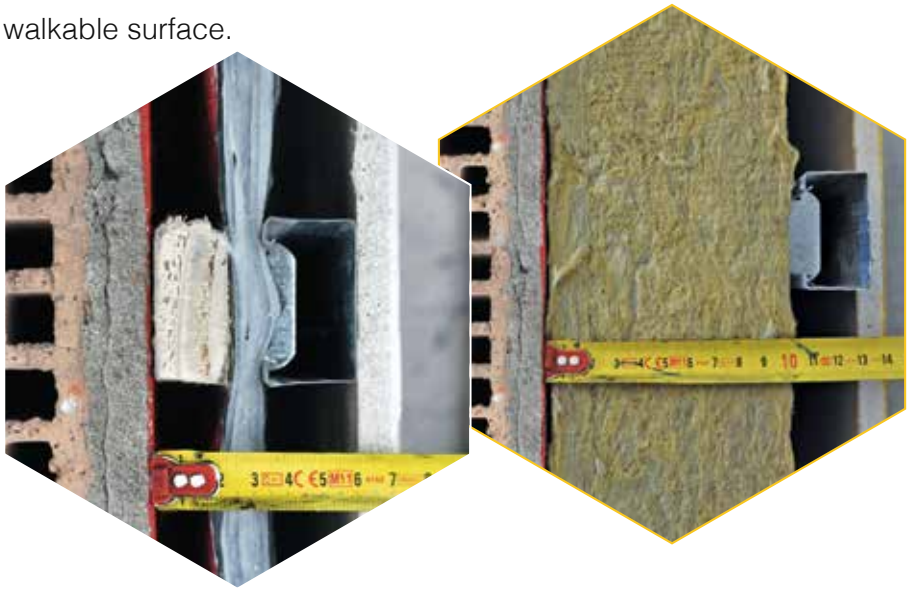
Saving as much as 7 cm!

Use of Over-foli Multistrato 19 in a 100 m² apartment
allows to gain about 3 m² of floor space!

7 Low thickness

Thickness reduction means more walkable surface.

On the left an insulated wall with **Over-foil Multistrato 19** and on the right a wall insulated with a standard insulation material used to achieve the same thermal performance.

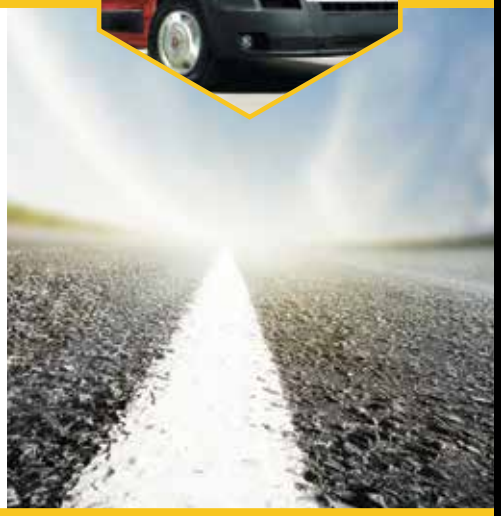


Insulating solutions for efficient buildings

10 rolls of
Over-foil insulation
for a 150 m^2 house

Continuous insulation
without thermal and
acoustic bridges

Over-all insulating does not contain harmful and irritating substances



Over-all insulations do not absorb water in case of borken tiles

Transport savings

1500 m^2 = 20 m^3
Over-foil insulation

=

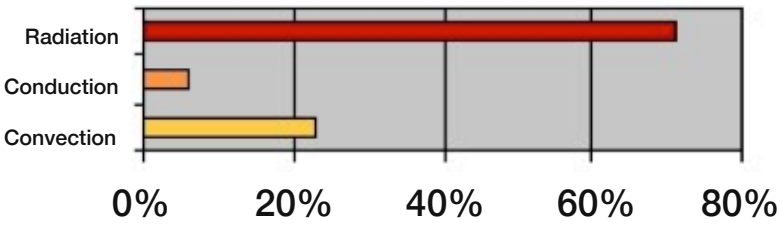
two trucks
of other insulating

Thermoreflective insulation: How does it work

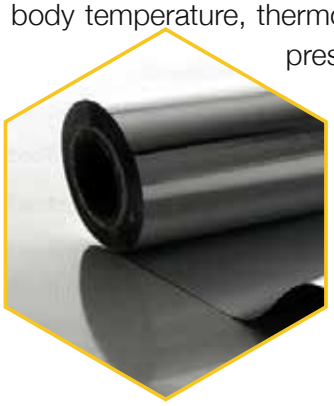
Operational principle

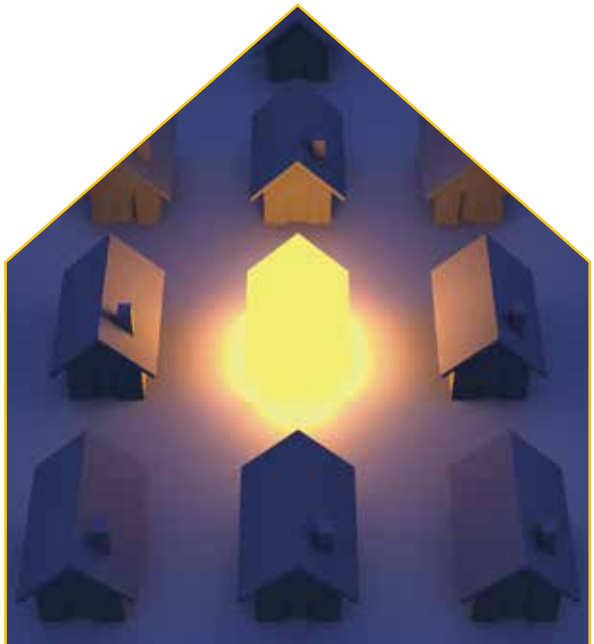
Radiation is the principal cause of heat loss. In particular, during winter, heat loss through external walls and roofing amounts to 65-80%.
During summer the heat due to radiation transmitted from the roofing to the dwelling is even equal to 93%.
Thermoreflective insulation **do not absorb heat** thanks to the glossy surfaces (low emissivity).

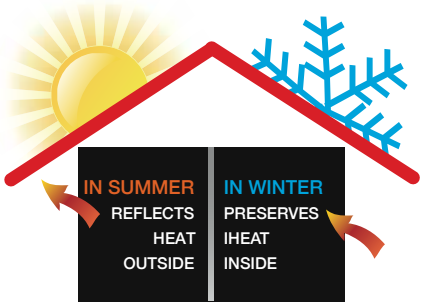
Heat quantity lost through walls



The applications of this kind of insulation in other sectors highlights its functioning and effectiveness, as for example, thermal blankets which are used to keep body temperature, thermos for hot (or cold) liquids that preserve the liquid temperature thanks to low-emission surfaces of the cavity, or aluminum films used in cooking, which maintains temperature of food slowing down heat transmission by radiation.







Building applications

The outstanding performance of Over-all reflective insulations are not comparable with other materials which directly depend on thickness to ensure insulation.
Reflective insulations have a low thickness, with the advantages of occupying less space within the masonry structures. They are coated with one or more pure aluminum foil and have an emissivity value of 0.02 - 0.05, therefore able to reflect radiant energy in a very high percentage.

To increase performance, reflective insulations are laid in an **"insulating system"** which involves creating one or more air cavity.
Thermal reflecting surfaces, in contact with air, limits the heat transfer increasing the insulating power of the air by more than four times.
They are in fact low-emissivity surfaces, allowing to reflect radiated energy up to 98%.

An Over-all reflective material, placed in the middle of an air chamber of a wall or a roof, produces an increase of thermal resistance of about 8 times.

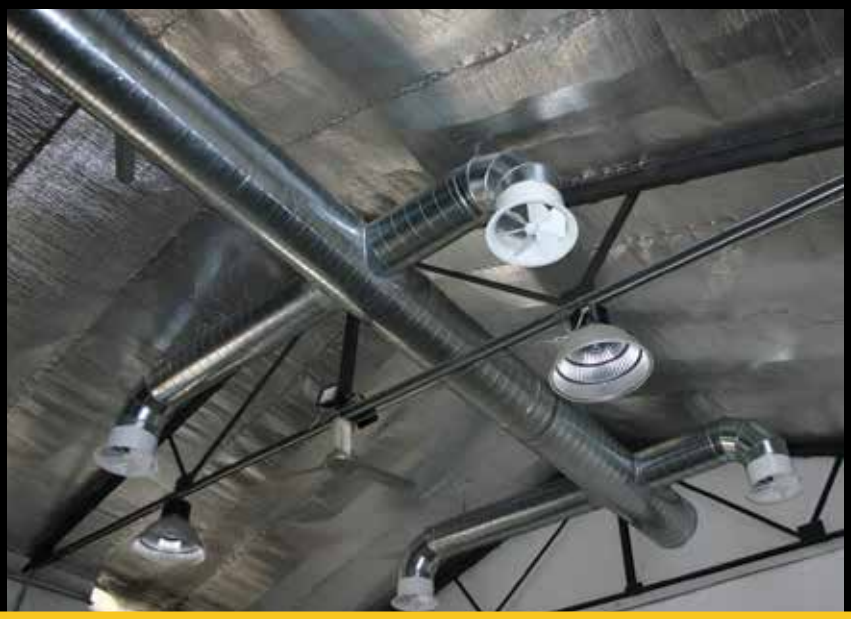
REGULATION

The standard specification to define the thermal insulation performance of reflecting insulating materials is the UNI EN 22097.
The specification describes a set of procedures for using test or calculation methods, defined in existing CEN or ISO standards, to determine the thermal performance of reflective insulation products.
The regulation applies to all insulating products that owe part of their thermal properties to the presence of one or more reflective or low-emissive surfaces and to any associated air spaces.

Wall insulation

Roof insulation

Insulation of metal and tensile structures



Insulation of radiant walls

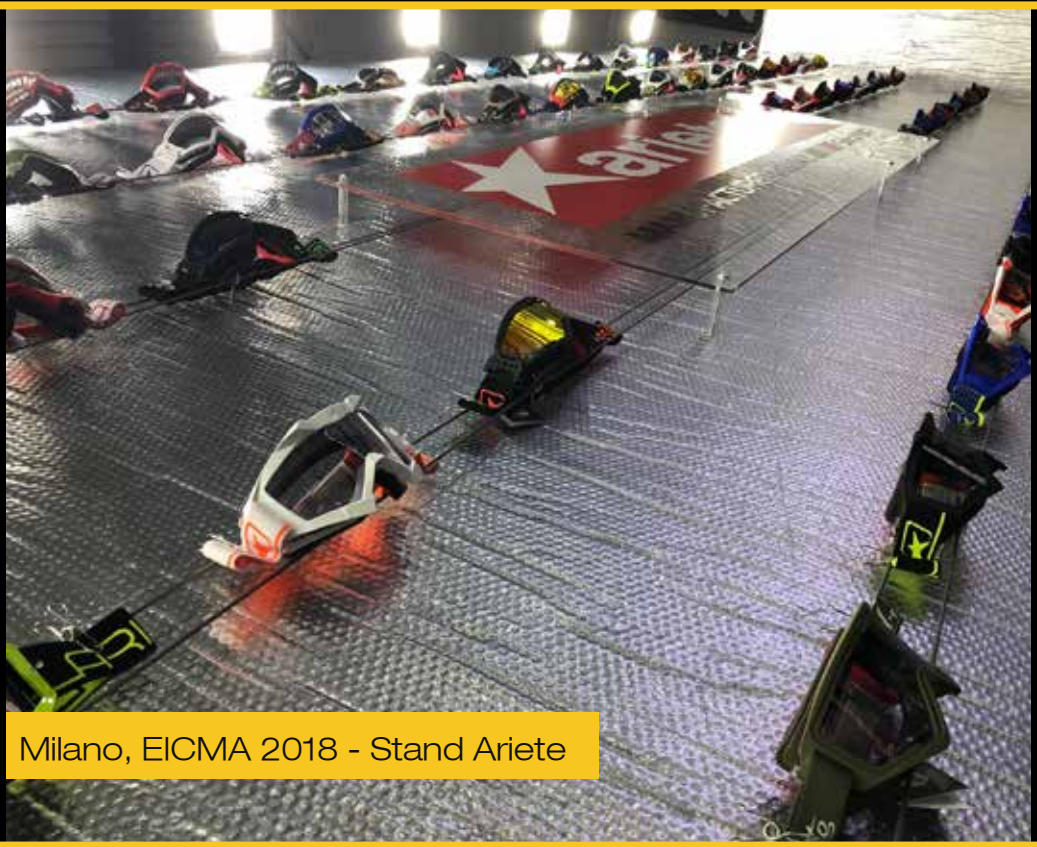
Fashion and design

Parigi, Miu Miu fashion show

Londra, HA

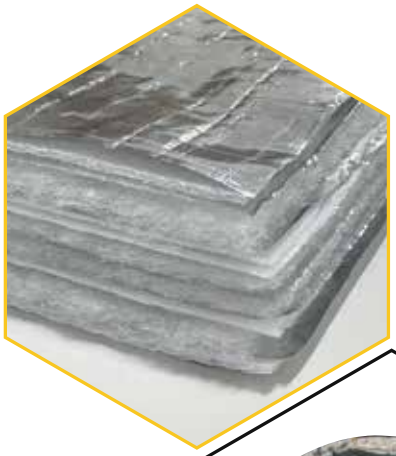
Transport and storage

RRODS - Prada



Milano, EICMA 2018 - Stand Ariete

Over-foil Multistrato 19

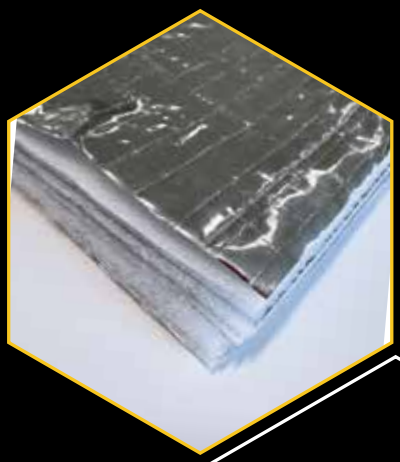


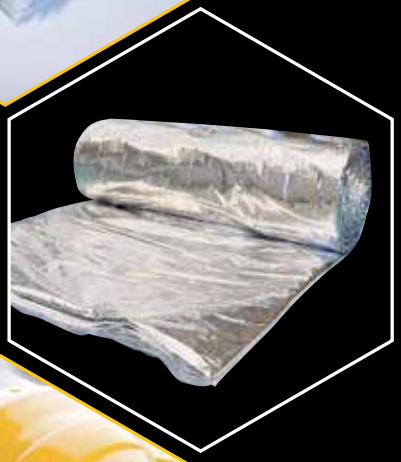
Over-foil Multistrato 19 is the best performing pure aluminium reflective insulation on the market, environmentally sustainable and certified. Thanks to its high thermal insulation performance, tested in accordance with the new UNI EN 22097 reference standard, it is the ideal insulation for limiting thicknesses in renovations and new constructions in combination with drywall systems. Used in walls and roofs, it makes it possible to exploit the air spaces created, thus obtaining high-performance structures with low thickness. **Over-foil Multistrato 19** consists of 19 layers with the 2 outer faces of pure aluminium protected and reinforced with net.

Main technical specifications

Number of layers	19
Roll height	150 cm (utile 147 cm)
Roll length	10 m (utile 10,2 m)
Nominal thikness	52 mm
Weight	800 gr/m^2
Thermal resistance of the material	1,66 m^{2}K/W
Thermal resistance in double cavity wall	2,99 m^{2}K/W
Emissivity (external faces)	0,05
Sound insulation capacity of the product	Rw 8 dB
Vapor diffusion coefficient “μ”	90.000
Flammability	Class E

Over-foil Multistrato 11





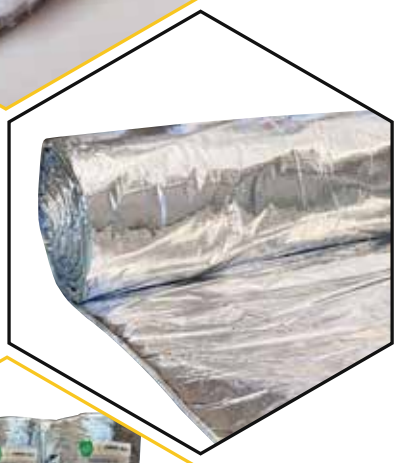
Over-foil Multistrato 11 is the environmentally sustainable and certified **pure aluminium** reflective insulation. Tested in accordance with the new reference standard **UNI EN 22097**, it is the ideal insulation for **reducing thicknesses in renovations and new buildings** in combination with drywall systems. **Over-foil Multistrato 11** consists of **11 layers** with the 2 outer faces of **pure aluminium** protected and reinforced with net.

Main technical specifications

Number of layers	11
Roll height	150 cm (utile 147 cm)
Roll length	10 m (utile 10,2 m)
Nominal thikness	34 mm
Weight	660 gr/m^2
Thermal resistance of the material	1,06 m^{2}K/W
Thermal resistance in double cavity wall	2,39 m^{2}K/W
Emissivity (external faces)	0,05
Vapor diffusion coefficient “μ”	90.000

* inhouse calculation

Over-foil 311+

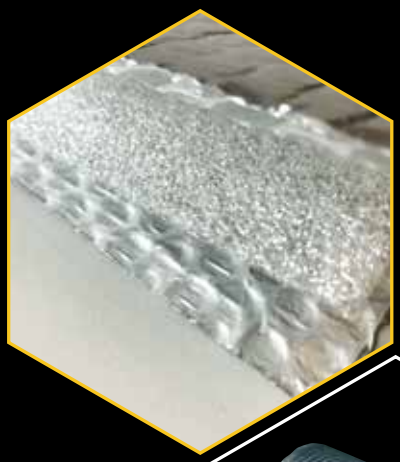


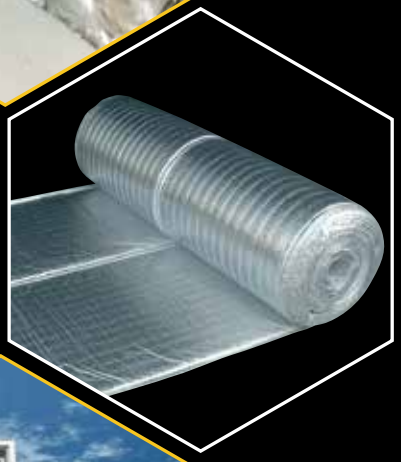
Over-foil 311+ is the eco-friendly, certified **pure aluminium** reflective insulation. Consisting of **7 layers** in total, it has the 2 outer faces of **pure aluminium** protected and reinforced with net; the 5 inner layers are additional reflective films, wadding layers and PE foam film. Tested according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

Main technical specifications

Number of layers	7
Roll height	150 cm (utile 147 cm)
Roll length	20 m
Nominal thikness	14 mm
Weight	430 gr/m^2
Thermal resistance of the material	0,457 m^{2}K/W
Thermal resistance in double cavity wall	1,79 m^{2}K/W
Emissivity (external faces)	0,05
Vapor diffusion coefficient “μ”	90.000

Over-foil 311





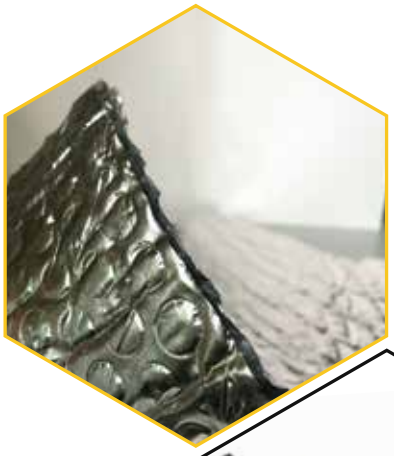
Over-foil 311 is a thermoreflective material in rolls made up of 5 layers. Two reflective surfaces in pure aluminum, two bubble layers and one layer of 3 mm PE foam in the middle. Product certified according to the UNI EN 12667 standard.

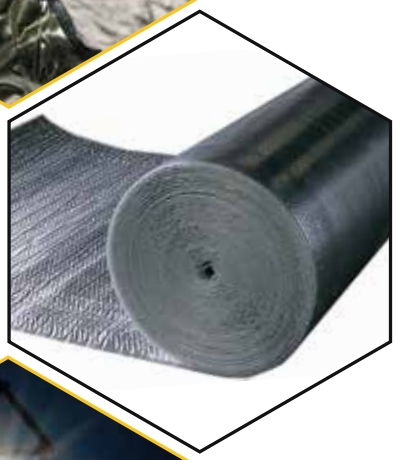
Main technical specifications

Number of layers	5
Roll height	150 cm
Roll length	20 m
Nominal thikness	9 mm
Weight	520 gr/m^2
Thermal resistance of the material	0,73 m^{2}K/W
Thermal resistance in double cavity wall	1,90 m^{2}K/W
Emissivity (external faces)	0,05
Vapor diffusion coefficient “μ”	30.789
Flammability	Class F
Soundproofing power (wall)	Rw 55 dB*

* inhouse calculation

Over-foil 2L-2





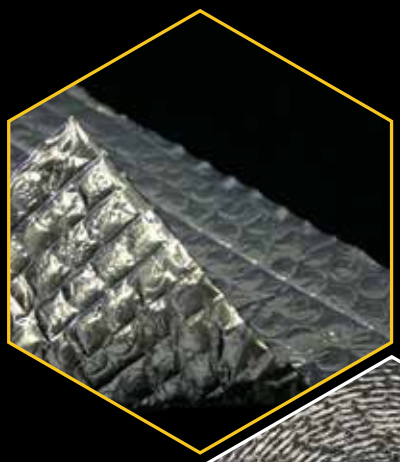
Over-foil 2L-2 is a heat-reflective material in rolls composed of: 2 outer faces of pure aluminum protected and 2 air bubbles with high grammage. Product certified according to the UNI EN 12667 standard.

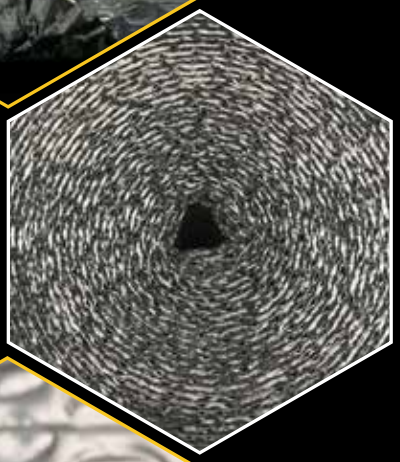
Main technical specifications

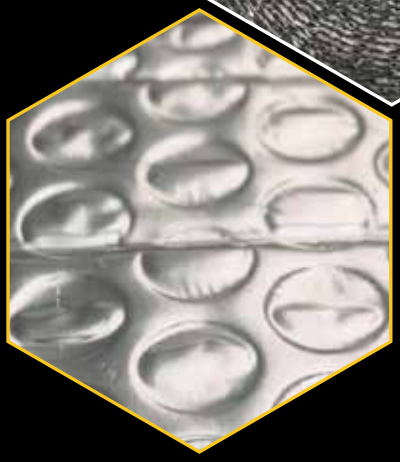
Thikness	6,5 mm
Roll height	120 cm
Roll length	25 m
Weight	340 gr/m^2
Thermal resistance of the material	0,32 m^{2}K/W
Thermal resistance in cavity wall	1,49 m^{2}K/W
Emissivity (external faces)	0,05
Vapor diffusion coefficient “μ”	30.789
Soundproofing power (wall)	Rw 54,8 dB*

* inhouse calculation

Over-foil Rad





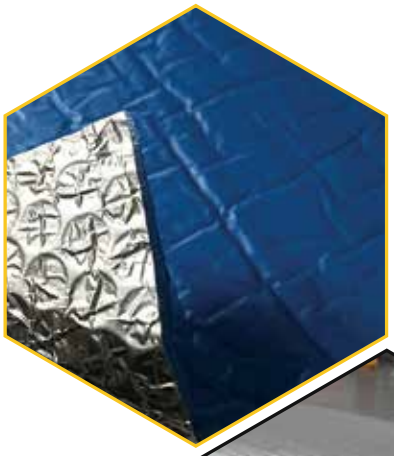


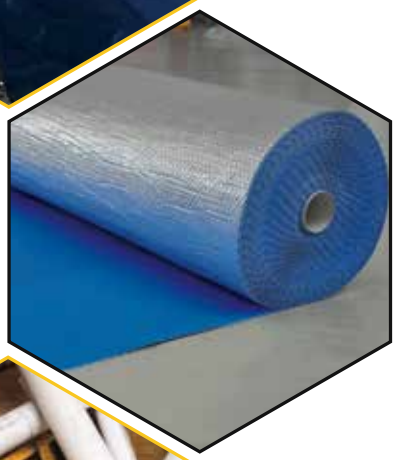
Over-foil Rad is a heat-reflective material in rolls composed of: 2 outer faces of protected pure aluminum and 1 air bubble with high grammage. Product certified according to the UNI EN 12667 standard.

Main technical specifications

Thikness	3 mm
Roll height	120 cm
Roll length	25 m
Weight	300 gr/m^2
Thermal resistance of the material	0,125 m^{2}K/W
Thermal resistance in double cavity wall	1,27 m^{2}K/W
Emissivity (external faces)	0,03
Vapor diffusion coefficient “μ”	30.700

Over-foil BM



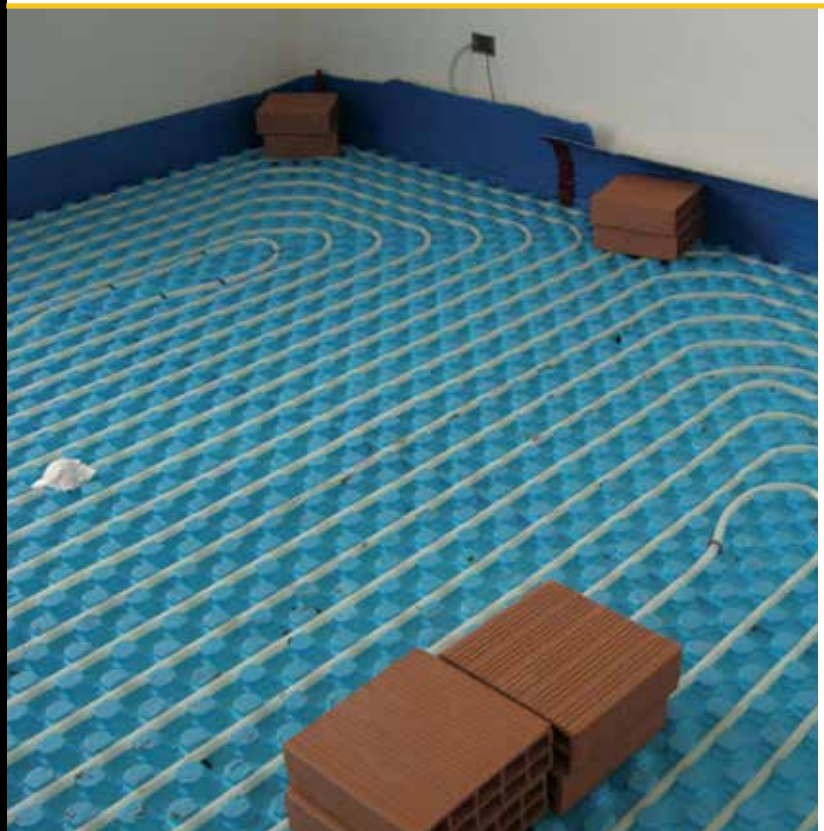


Over-foil BM is a thermoreflective material developed and manufactured to insulate floors. Noise is a very common type of pollution in urban realities. Flexibility, high compressive and tensile strength, ease and quick laying of the product are the features that make it possible to realise “floating” floors with excellent acoustic insulation compliant with the acoustic requirements set by standards. **Over-foil BM** is also a greate thermal insulation and a perfect vapor barrier.

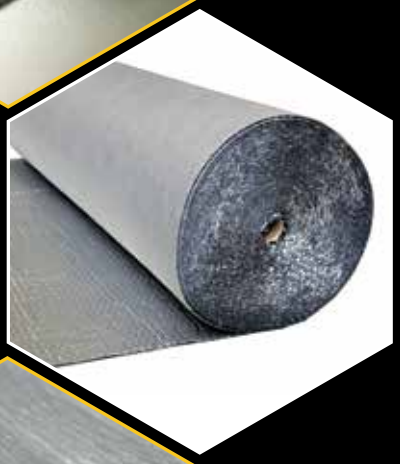
Main technical specifications

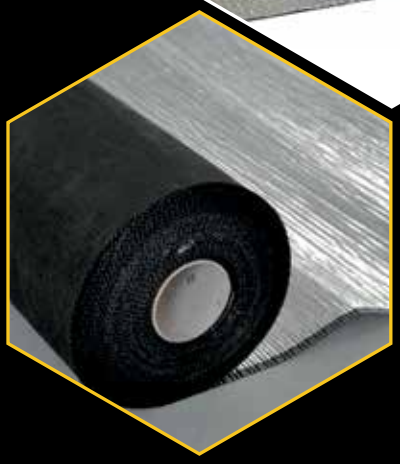
Roll height	120 cm
Roll length	25 m
Nominal thikness	6 mm
Weight	420 gr/m^2
Thermal resistance of the material*	0,35 m^{2}K/W
Acoustic insoulation value (floor)	ΔLw 31 dB*

* inhouse calculation



Over-foil Clima

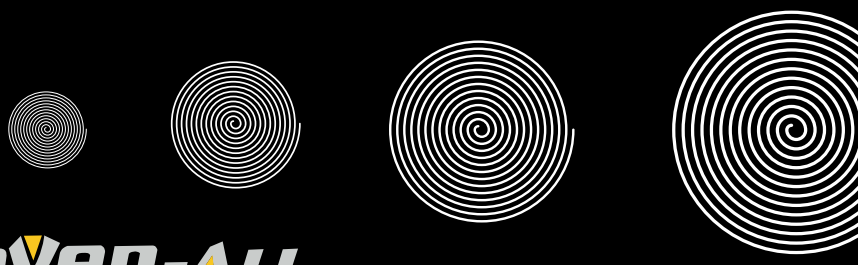




Over-foil Clima is a heat-reflective insulator available in two different solutions:
Over-foil Clima (Bubble) composed of 1 outer face of pure aluminum, 1 air bubble of high grammage, and 1 outer face of gray TNT breathable waterproof membrane.
Over-foil Clima (Wavy) composed of 1 outer face of pure aluminum, 1 3-mm polypropylene wavy film, and 1 outer face of black TNT breathable waterproof membrane.

Main technical specifications

Thikness	4 mm
Roll height	120 cm
Roll length	40 m
Weight	290 gr/m^2
Thermal resistance of the material	0,125 m^{2}K/W
Thermal resistance in single cavity wall	0,614 m^{2}K/W
Permeability	75,4 g/m^2 24h
Vapor permeability value “μ” (open flaps)	159



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