



FIND OUT MORE

The full list can be consulted at

 www.acermi.com

A search can be made by manufacturer,
product category or product.

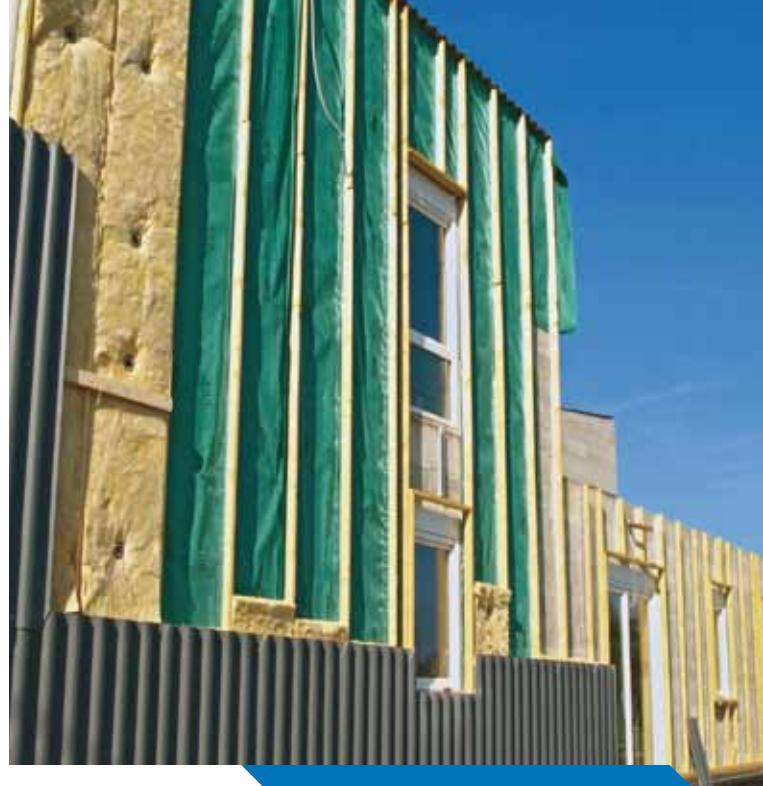
Over
500 products
are covered by an
ACERMI certificate.

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**QUALITY
CERTIFICATION
OF THERMAL
INSULATION
MATERIALS**

 www.acermi.com





ACERMI means...

- Voluntary certification for manufacturers
- A guarantee of quality and objectivity
- Reliable information to help you compare the insulating materials and choose the appropriate ones



Certified insulating materials carry the ACERMI quality mark.

Quality certification

issued by ACERMI
the Association for Certification of Insulating Materials

ACERMI is a French non-profit-making association set up in 1983 by CSTB and LNE, who created the ACERMI certification mark.

● CSTB

The Scientific and Technical Centre for Building works with all parties concerned to improve the quality and safety standards of buildings.

● LNE

France's National Metrology and Testing Laboratory helps companies in many sectors – including housing – to achieve their quality, safety, performance and sustainable development goals.

Specified performance



ACERMI-confirmed performance

Tests are performed to ensure that a certified product possesses the characteristics specified on its label.

Following the tests and a production audit, the manufacturer is authorized to affix the ACERMI logo to the insulating materials concerned.

The manufacturer's entitlement to use the ACERMI certificate is periodically reassessed depending on the results obtained.

Certification

to ensure reliable product performance

● Factory inspections

Insulating materials are sampled in the factory twice a year. The company's quality procedures are audited.

● Laboratory tests

Sampled insulating materials undergo a series of tests:

- Resistance to heat flow (R-value)
- Reaction to fire
- Fitness for purpose (mechanical behaviour, behaviour in the presence of water and moisture, dimensional stability, water vapour diffusion, etc.)
- Acoustic performance.

Choosing your insulating material

→ The right insulation for each use

Thermal insulation materials may be organic polymers, or of mineral, plant or animal origin, or reflective products. They must be chosen according to their intended use – insulation of the roof (loft or flat roof), the walls or the floor.

Besides thermal resistance (R-value), ACERMI product certification can also cover reaction to fire, acoustic and mechanical performance, dimensional stability, and behaviour in the presence of water or water vapour. The ISOLE profile details several of these performance characteristics to help home owners choose the right insulating material for their needs.

→ Choose with confidence

The right choice of insulating material depends on:

- its thermal conductivity λ and intrinsic properties
- reliable measurement of its performance.

The ACERMI mark on a product guarantees that the information on its label has been verified.



→ Four categories of insulating materials

Organic polymer insulating materials

expanded polystyrene, extruded polystyrene, polyurethane or polyisocyanurate, phenolic foam



Insulating materials of mineral origin

glass or rock mineral wool, expanded perlite, cellular glass



Insulating materials of plant and animal origin

cellulose, hemp, linen, cotton, recycled fibres, wood fibres, wood wool, sheep's wool, feathers, expanded cork, straw, etc.



Reflective products

single or multi-layer products consisting of various kinds of materials (reflective film, cotton wool, wool, foam, etc.)



Effective thermal insulation means

– lower energy consumption + greater comfort

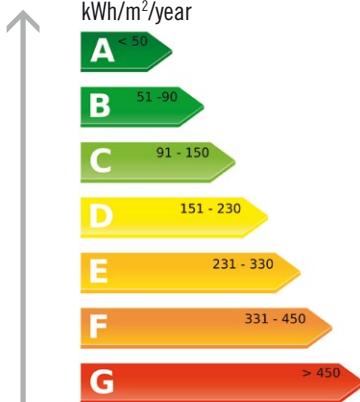
Be eco-responsible

- Make long-term energy savings
- Protect the environment by reducing greenhouse gas emissions

Protect your pocket

- Reduce your domestic energy bills (gas, electricity, oil, etc.)
- Qualify for tax credits
- Improve the energy efficiency rating of your property

When you insulate, you use less energy



By insulating your home,
you improve its energy
efficiency rating

*Energy consumption of a building
per square metre per year, in kWh*

Improve your comfort

- Good insulation means more comfort at home



Look for the R

Thermal resistance is a material's ability to insulate.

How is thermal resistance calculated?

$$R = \frac{e}{\lambda}$$

R = thermal resistance (m².K/W)

R expresses the insulating power of a product. It depends on both the product's thickness and its thermal conductivity. The higher the R-value, the better the product insulates.

e = thickness (m)

The thickness of the insulating material.

λ = thermal conductivity (W/m.K)

The λ symbol (lambda) expresses the material's ability to conduct heat. It depends on both the nature of the material and its density.

A good insulating material prevents heat passing through it. The lower the material's thermal conductivity, the better it insulates.

A template for a product label for thermal insulation material. The label includes a large 'R' symbol with a magnifying glass over it, a barcode, and various data fields.

Information of the company		
λ_s W/m.K	Euroclass	
.....
Thickness (mm)	Length (m)	Width (m)
.....
Manufactured in the factory		
Manufacturing code		
5 413342 112273		
Certified thermal insulation material Certificate N° www.acermi.com		
ACERMI		
m ² / parcel	Parts / parcel	
.....
Product code	Manufacturer's logo	
.....		

Thermal resistance (R) and thermal conductivity (λ) are indicated on the product label