



WOOL4BUILD®

THE NATURAL INSULATOR FOR
SUSTAINABLE CONSTRUCTION





WOOL4BUILD

A SUSTAINABLE ALTERNATIVE TO MINERAL INSULATION MATERIAL

Thanks to wool's innate properties, WOOL4BUILD, a natural wool insulation material, is a high-performance thermal and acoustic insulating product designed and developed to provide your home with outstanding levels of comfort and reductions in energy consumption.

WOOL4BUILD also provides a number of environmental advantages, such as reductions in the consumption of non-renewable resources and less building waste, making it the ideal material for sustainable construction and environmentally-friendly buildings.

THE GUARANTEE OF A LARGE GROUP OF COMPANIES

WOOL4BUILD is manufactured and marketed by the **Lederval** Group, whose 40 years' experience in a range of industries is a guarantee of quality.



GRUPO
LEDERVAL

THE PRODUCT

WOOL4BUILD sheep wool insulation is available in two grades: COMFORT and PREMIUM, to provide a solution to different construction requirements. The same great quality, with different densities and performance ratings.



THERMAL INSULATION

Natural wool's properties and its ability to regulate temperature and humidity give WOOL4BUILD insulation outstanding thermal and conductive insulating performance, to improve your home's comfort and warmth.



ACOUSTIC INSULATION

The product's semi-rigid, semi-open structure guarantees its acoustic insulation performance. Its technical properties (average acoustic absorption coefficient, weighted acoustic absorption and noise reduction) have been fully tested and evaluated.



NATURAL MATERIAL

WOOL4BUILD is 100% recyclable and ideal for eco-sustainable buildings. Mechanical stability and technical properties are guaranteed by its high content of Merina wool (85%). It is the best natural ambient humidity regulator and its manufacture only requires 25% of the energy used to manufacture mineral insulation materials such as Rock Wool or glass fibre.



INSECT-PROOF MATERIAL

The special long-life treatment given to WOOL4BUILD makes it completely impervious to insects, including *Tineola bisselliella*, in compliance with ISO 3998 (1977).

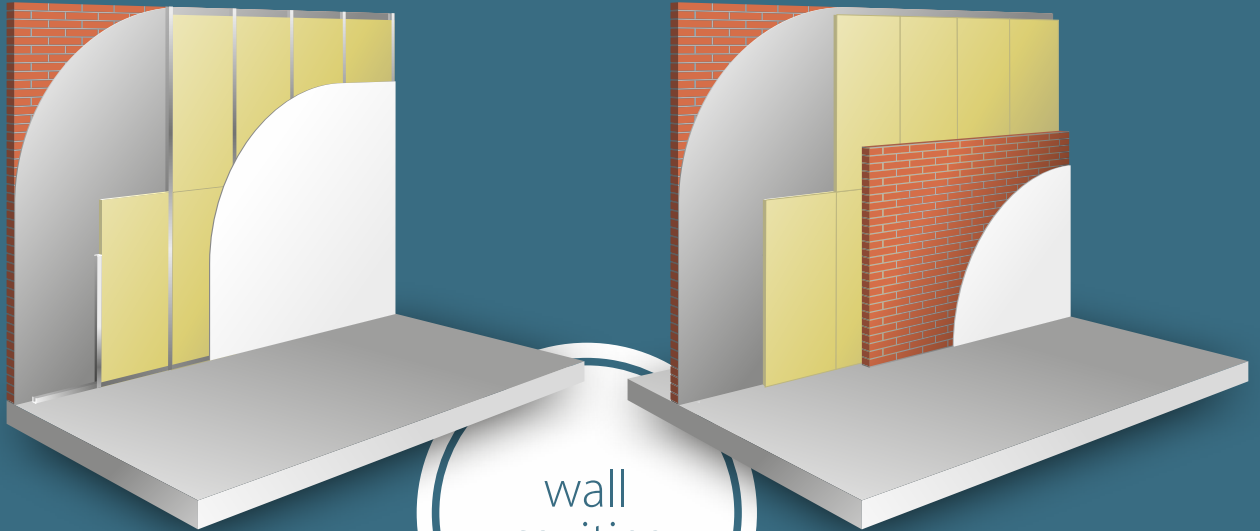


TECHNICAL DATA

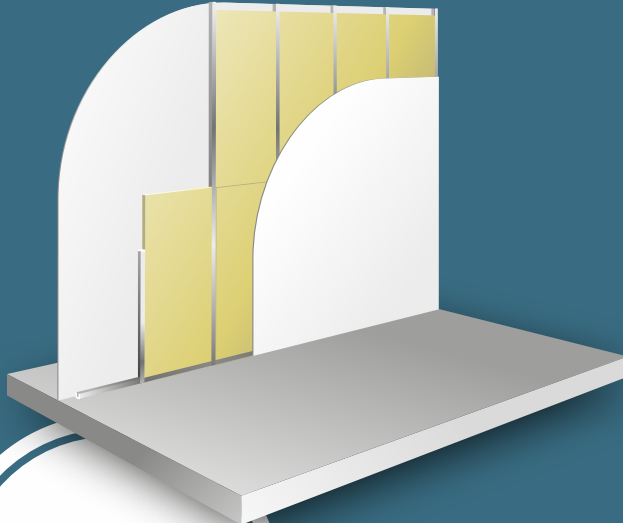
	WOOL4BUILD COMFORT	WOOL4BUILD PREMIUM
DENSITY	20 Kg/m ³	30 Kg/m ³
THICKNESS	40 mm	50 mm
PANEL SIZE	1350X600 mm or 1350X400 mm	1350X600 mm or 1350X400 mm
THERMAL RESISTANCE	1.10 (m ² ·K/W)	1.50 (m ² ·K/W)
THERMAL CONDUCTIVITY	0.0362 (W/m·K)	0.0330 (W/m·K)
AVERAGE ACOUSTIC ABSORPTION COEFFICIENT	0.75 α _{medio} (DB-HR)	0.88 α _{medio} (DB-HR)
WEIGHTED ACOUSTIC ABSORPTION	0.65 α _w	0.75 α _w
NOISE REDUCTION COEFFICIENT (NRC)	0.65	0.75
RESISTANCE TO INSECTS	1	1
FIRE RATING	E	E

INSTALLATION

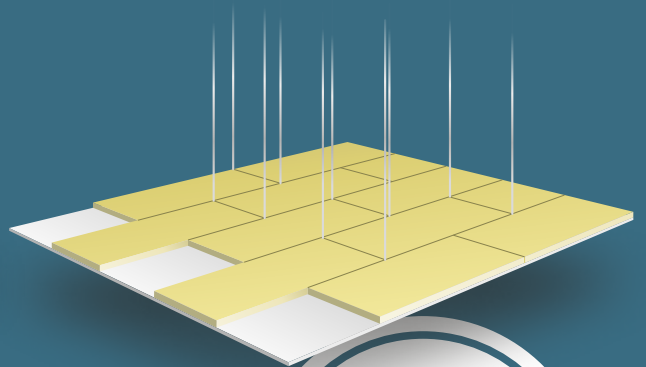
WOOL4BUILD insulation is simple to install in a procedure which is almost identical to those followed for other mineral wool products. It can be installed in wall cavities – either double-skin exterior brick or interior stud walling - in ceilings and dividing walls.



wall
cavities



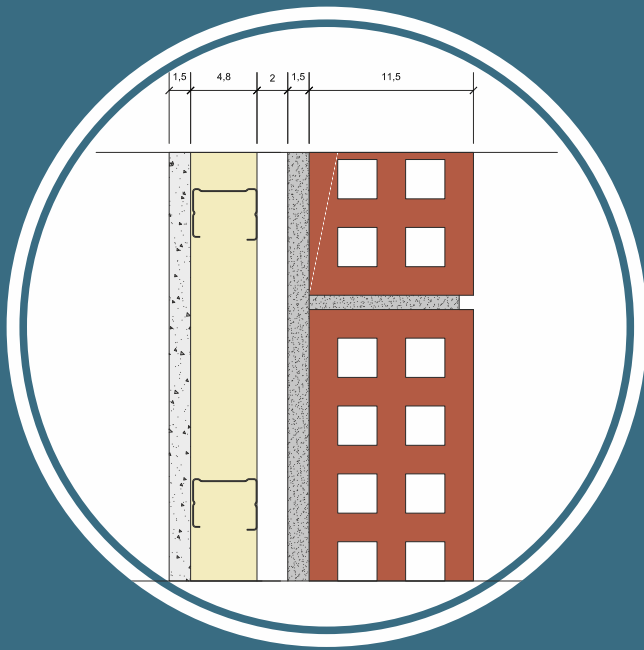
stud
walling



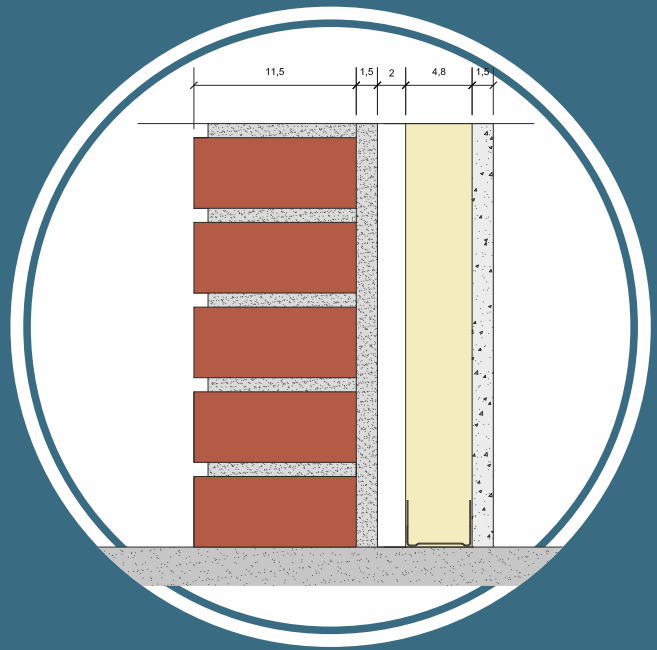
ceilings

The panels are designed for installation on the steel framework for dividing walls, although their rigidity means they can also be installed in wall cavities.

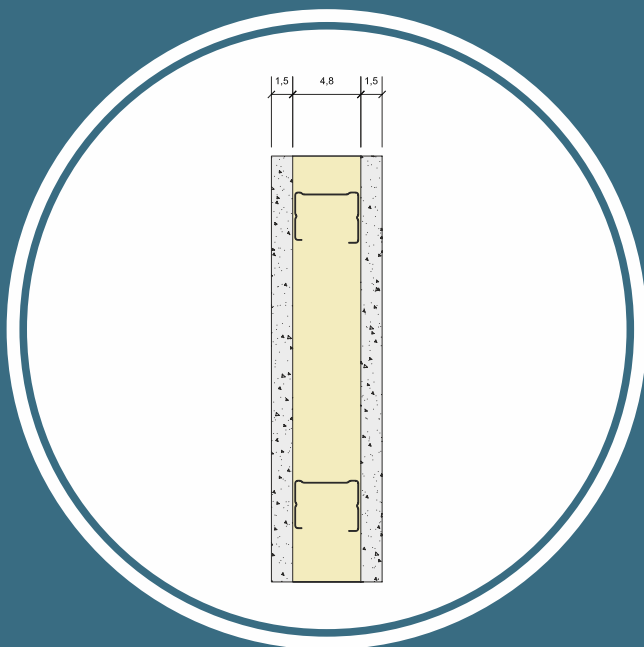
facade installation
horizontal section



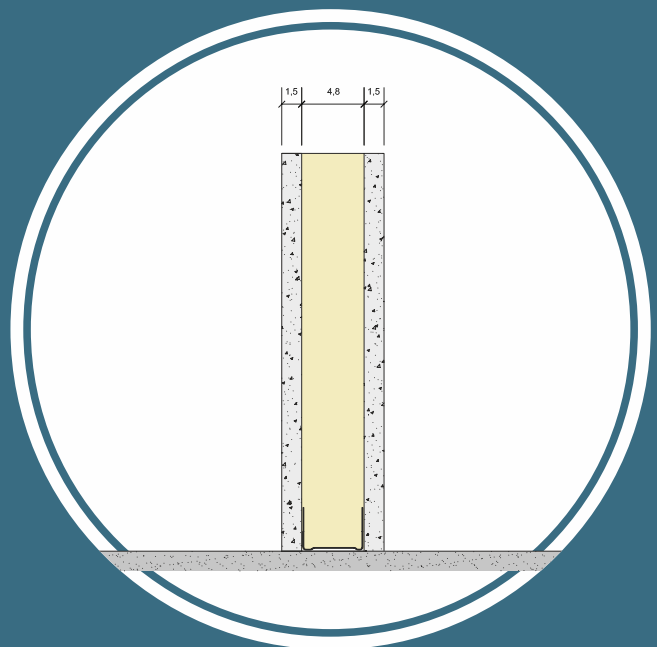
facade installation
vertical section



dividing wall installation
horizontal section



dividing wall installation
vertical section



WOOL4BUILD's standard dimensions make it compatible with most building standards and easy to install, and the panels can easily be cut to fit non-standard requirements.

Installers working with **WOOL4BUILD** require no special protection and no harmful dust is released when handled.

For proper product placement see the installation guide.

WOOL4BUILD

THE LOW-COST
HIGH-PERFORMANCE
NATURAL INSULATING MATERIAL

***Why choose natural sheep
wool insulating material?***



**NATURAL
PRODUCT**

ENVIRONMENTAL ADVANTAGES

The sheep wool used to manufacture WOOL4BUILD is 100% recycled wool and can also be reclaimed from the demolition of a building it has been installed in and reused to make new panels. This reduces the consumption of non-renewable resources and solid building waste.

The manufacture of WOOL4BUILD panels only requires 25% of the energy used to manufacture other mineral wool insulation materials such as Rock Wool or glass fibre.



COMFORT

COMFORT ADVANTAGES

Wool's hygroscopic properties make WOOL4BUILD an excellent humidity regulator: it absorbs water vapour in humid conditions and releases it in dry conditions, improving the comfort of your home.

Being a 100% natural product, sheep wool represents no health risk during installation or over the course of time.





WOOL4BUILD®

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WOOL4BUILD insulation has been developed by the "IMPROVED ISOLATION MATERIAL FORECO-BUILDING BASED ON NATURAL WOOL" project, co-funded by the EC through its "CIP Eco-Innovation" Programme.



Co-funded by the Eco-innovation
Initiative of the European Union

Coordinator



INPELSA

Partners



aitex®
textile research institute



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**ENVIRONMENT
PARK** Parco Scientifico
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