

At the ROCKWOOL Group, we're committed to tackling many of today's biggest sustainability and development challenges, from energy consumption and noise pollution, to fire-resilience, water scarcity and flooding.

Stone wool is a versatile material and forms the basis of all our businesses. We're the world leader in stone wool solutions, including building insulation, acoustic ceilings, and external cladding systems.

Your dream renovation

starts with stone wool insulation



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Great reasons to renovate...

- You want to increase the resale value of your house
- You want to upgrade the look or design of your house
- Your family requires more space
- You would like to save money on energy
- You would like to create a more comfortable indoor environment



..Are also great reasons to insulate

Whatever your particular reason to renovate, you can improve your home still further by improving its insulation at the same time. If you take the opportunity to fit ROCKWOOL stone wool insulation, you can make your home warmer in winter, cooler in summer, and quieter all year round.

ROCKWOOL stone wool insulation is a natural product made from stone that makes a home more energy-efficient and protects it from fire, damp and mould .

Made from

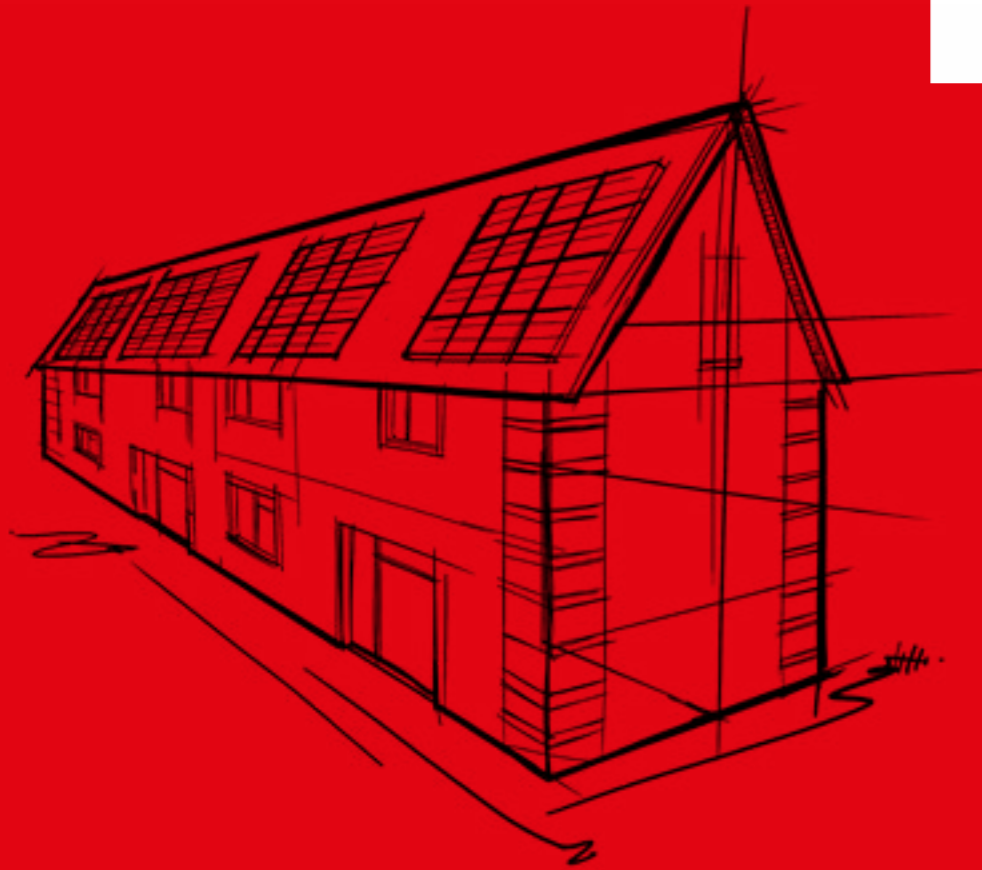
97%

natural stone

ROCKWOOL insulation does not require any maintenance – it is durable and does not change over time, so you can expect the same performance year after year, for more than 50 years!

Stone wool insulation – the natural choice

ROCKWOOL stone wool is different from other insulation because it is a natural material. It is made from stone in a process that is similar to what goes on inside the heart of a volcano.



The 7 strengths of stone



Fire-safe

Because it is made from stone, ROCKWOOL insulation is non-combustible. It can withstand temperatures above 1000°C, making it the safer choice to protect your home and your family from fire.



Thermal

ROCKWOOL stone wool insulation will keep your home warm in winter and cool in summer. And because it is vapour-permeable, it also helps prevent damp and the formation of mould.



Acoustic

Your home will be a sanctuary of calm, because ROCKWOOL stone wool insulation helps reduce unwanted noise from other rooms, floors, neighbouring properties, and external city noises such as traffic and trains.



Robust

ROCKWOOL stone wool insulation is extremely robust and durable. It does not change or distort over time, so your home will continue to benefit from its presence for more than 50 years.



Aesthetic

ROCKWOOL stone wool insulation is available in a variety of shapes and sizes and can be cut to exact dimensions. Which means you need never compromise on comfort or safety for the sake of design and appearance.



Circular

ROCKWOOL insulation is made from natural stone and recycled material, and can be recycled and re-used again and again.



Water-resistant

ROCKWOOL stone wool insulation repels water and helps to keep your home comfortable and dry.

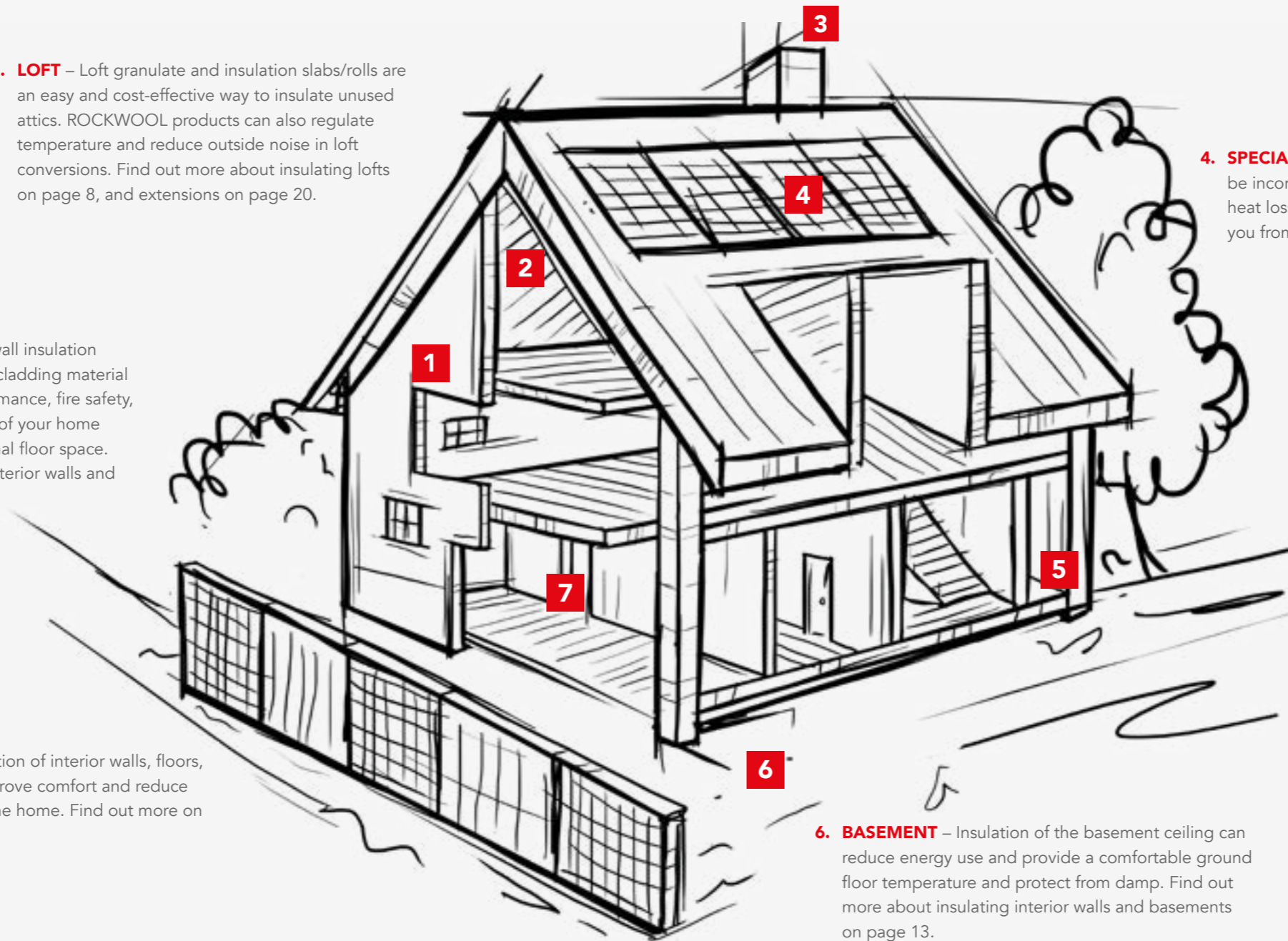
There's a ROCKWOOL solution for every renovation problem

ROCKWOOL stone wool insulation products are made from natural stone and recycled material and can improve your home improvements in many ways.

1. EXTERIOR – External wall insulation systems with render or cladding material improve thermal performance, fire safety, and even the acoustics of your home without taking up internal floor space. Find out more about exterior walls and facades on page 16.

7. INTERIORS – Insulation of interior walls, floors, and ceilings can improve comfort and reduce unwanted noise in the home. Find out more on page 12.

2. LOFT – Loft granulate and insulation slabs/rolls are an easy and cost-effective way to insulate unused attics. ROCKWOOL products can also regulate temperature and reduce outside noise in loft conversions. Find out more about insulating lofts on page 8, and extensions on page 20.



3. PITCHED ROOF – A large part of a building's energy loss is through the roof. Insulation keeps this loss to a minimum and improves summer comfort too.

4. SPECIALISED SOLUTIONS – special insulation can be incorporated under solar systems to minimise heat loss, increase energy efficiency, and protect you from fire. Find out more on page 22.

5. EXTERIOR WALLS – You can insulate from the inside when you need to keep the house warm in winter or cool in summer, reduce energy usage and limit unwanted noise, but still want to maintain the existing appearance of the house, e.g. bricks or old stone walls. Find out more on page 16.

6. BASEMENT – Insulation of the basement ceiling can reduce energy use and provide a comfortable ground floor temperature and protect from damp. Find out more about insulating interior walls and basements on page 13.

Creating a loft to look up to

A loft conversion is one of the most obvious ways to create more space in your house.

Choosing the right insulation is critical, because this is the part of the house that is most exposed to extremes of temperature and the elements. Fit durable ROCKWOOL stone wool insulation as part of your conversion and it will help regulate your new room's indoor climate and save money on heating and cooling. And because it is non-combustible, it will also protect your family from fire.

YEAR-ROUND COMFORT BUILT-IN

Hot summers can make a poorly-insulated loft unbearably hot. And cold winters make it expensive to heat. The high density of stone wool makes it an efficient material for creating a comfortable indoor climate all year round.

THE LONG-TERM INVESTMENT THAT ALWAYS PAYS OFF

Of course, the whole idea of insulation is to help you save on energy costs. But what's different about ROCKWOOL stone wool insulation is that it does not sag, change shape, or deteriorate over time as some materials do. So ROCKWOOL maintains its performance year after year, delivering consistently predictable, and lower energy costs.

MAKE GREAT INSULATION PART OF YOUR DESIGN

To transform an unused loft into attractive living space, you want to let the light in and keep the extremes of temperature out. ROCKWOOL stone wool insulation offers solutions for any type of loft renovation to help you turn your dream space into a comfortable reality. Not only will it regulate temperature, but its breathability also helps resist the build-up of damp or mould caused by condensation.

INSULATING UNUSED ATTICS

Probably the most cost-effective area to insulate is an attic that is only used for storage. Thick, cross-laid layers of stone wool insulation between and above the floor joists of the attic space are particularly efficient.



Why choose ROCKWOOL stone wool?

Dense stone wool is excellent for summer and winter comfort and reducing noise levels.

- It is non-combustible and withstands temperatures above 1000°C, which keeps you safe and helps prevent the spread of fire
- Natural and breathable, so it limits the risks of condensation damage.
- Zero maintenance required



Renovating with stone wool insulation can reduce energy usage by

50-70%

Three typical types of loft insulation:



Horizontal loft insulation



Insulation between the rafters



Insulation above the rafters

It's what's behind the walls and under the floors that counts

Noise is an important factor that is often not given enough consideration when renovating a house.

Changing an attic to a children's room can generate a lot of noise when they are playing upstairs. And a dream of a silent home office can be ruined when you are disturbed by the noise of people gathering in the kitchen or your teenager playing loud music in their room. ROCKWOOL can help you relax and live more comfortably in your own home.

As nearly two-thirds of the world's population lives in cities today, it's no wonder that modern living can be so loud. ROCKWOOL has developed specific stone wool products to reduce noise through walls and floors. So if you are moving walls or are putting in a new floor, you can take the chance to significantly improve comfort levels by reducing noise from other rooms, floors, or neighbouring properties. By surrounding yourself with stone wool solutions, you can simply turn down the volume.



1. PERFECT FOR PARTITION WALLS

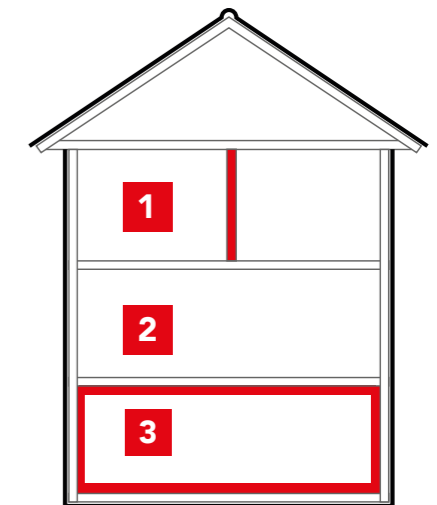
ROCKWOOL stone wool insulation has been especially designed to reduce noise through partition walls. This makes it easier for you to use your house for different purposes. For example, your phone calls will not wake a sleeping baby, and the noise of children playing will not disturb the peace in the room or house next door.

2. FIRST FOR FLOORING

ROCKWOOL products can be used for ground floors with floating construction. Their excellent thermal properties will help maintain a comfortable and even temperature – and help you save money on energy at the same time. They also help to reduce noise transfer from neighbouring properties.

3. BEST FOR THE BASEMENT

Our products work well for thermal insulation from an unheated basement, and help prevent damp and mould. They also have excellent noise-reducing properties, making them a good choice for intermediate floors where they can reduce the impact noise from footsteps.



Why choose ROCKWOOL stone wool?

ROCKWOOL stone wool insulation makes a room sound as comfortable as it feels.

- It not only regulates temperature, but also enhances acoustics to help reduce unwanted noise from other rooms, other floors, and neighbouring properties
- Flexible and can be cut to exact sizes, so fits well in old and new constructions
- Zero maintenance required



Stone wool partition wall insulation can reduce sound from the next room by

50%

Add benefits beneath the surface

You never get a second chance to make a first impression, so the condition of the outside of your home really matters. Exterior renovation can add considerable value to your home. And even better, you can save money on energy, improve the indoor climate, and reduce noise from outside at the same time by using ROCKWOOL stone wool insulation products.



ROCKWOOL stone wool insulation does not change shape or distort regardless of temperature changes, so your facade will not suffer from cracks or crumbling.

With ROCKWOOL products you can have a state-of-the-art building without compromising on beauty or durability. Depending on the architectural style of your house, ROCKWOOL offers specialised solutions.

1. RENDERED FACADE

A rendered wall can be an insulated rendered wall with the ROCKWOOL REDArt system. This unique combination of facade insulation and a textured render can make a home as durable and energy-efficient as it is attractive.

2. CLADDING FOR A HIGH-TECH OR TRADITIONAL LOOK

A cladded facade enables you to create almost any architectural impression, from streamlined high-tech through to a traditional wooden look. The ROCKWOOL REDAir system offers you full design flexibility combined with the efficient insulation of stone wool.

3. INSULATING FROM THE INSIDE

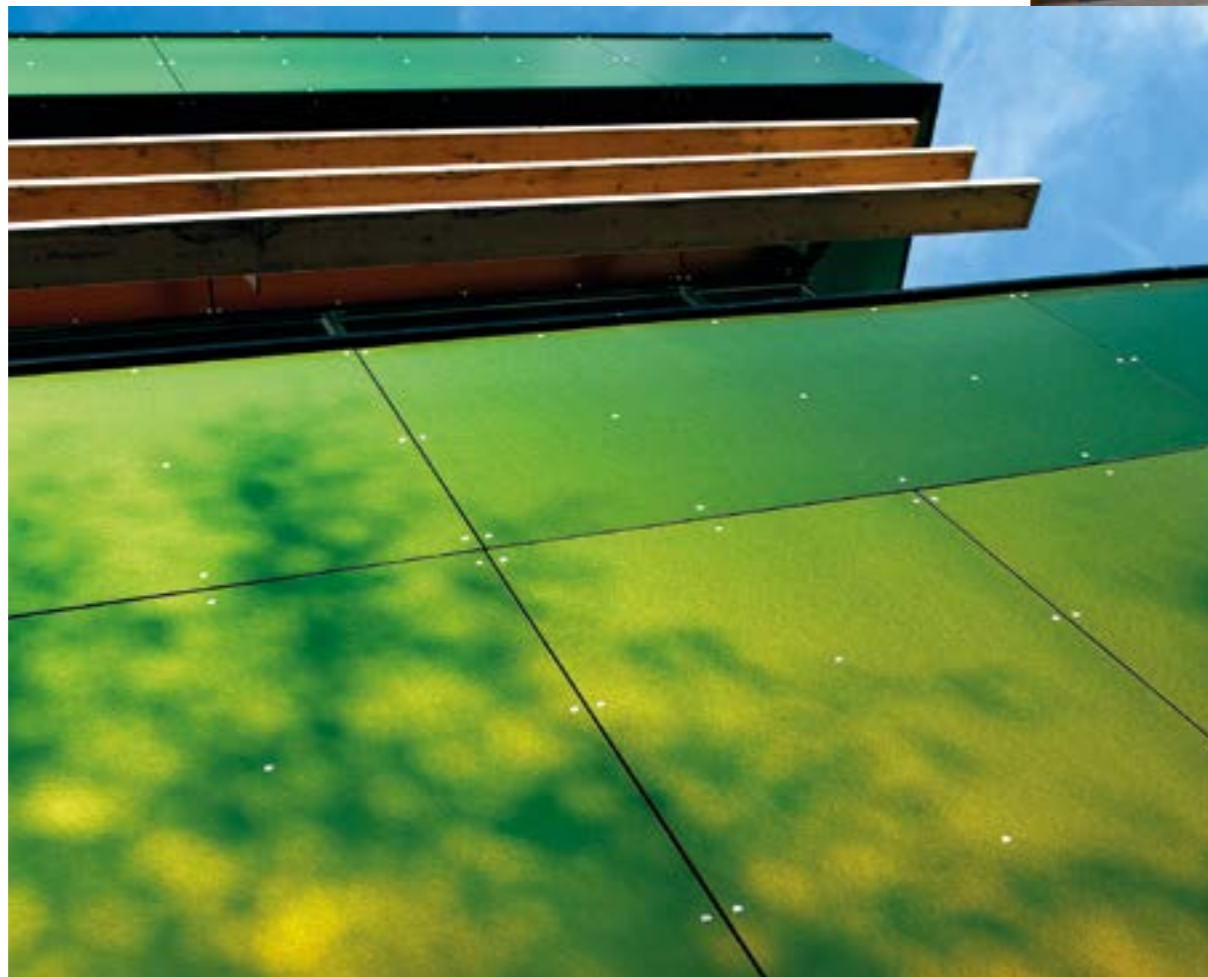
If your house has a facade that you don't want to cover with insulation, such as a feature with special architecture heritage or an old stone wall, ROCKWOOL stone wool insulation can be applied from the inside instead. Applying ROCKWOOL on the inside of the wall is an excellent solution for saving energy, improving comfort and maintaining the aesthetics of your facade.



Why choose ROCKWOOL stone wool?

Stone wool insulation is a robust, natural material that protects your home from fire and water.

- It is non-combustible and withstands temperatures above 1000°C, which keeps you safe and helps prevent the spread of fire
- Breathable ROCKWOOL stone wool insulation keeps you comfortable and limits the risks of condensation damage
- Minimal maintenance required



Stone wool insulation withstands temperatures above

1000°C

Have you also considered Rockpanel® facades...

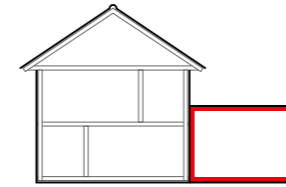
- When you want your home to meet the toughest fire regulation requirements
- When you want more design choices for safe facades
- When you want a broad range of available colours and designs that can give your home a new, modern and contemporary look
- Our Nature Facades products offer natural looking products which harmoniously blend into the environment and live up to the highest demands of sustainability
- Ideal for upgrading and renovating single family homes or small facades

Expanding your horizons

Sometimes it is not possible to fulfil the need for more space without a horizontal or vertical extension. In either case, a light frame construction is an easy and flexible way to extend. Making use of specialised ROCKWOOL stone wool insulation products can help meet building regulations, improve fire safety, increase comfort, and reduce energy bills.

MAKE A BIGGER FOOTPRINT

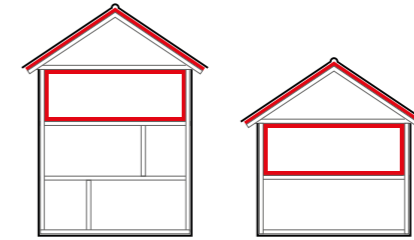
By combining colours, shapes and ROCKWOOL insulation materials such as REDArt or REDAir, you have the option to create a sympathetic horizontal extension that blends in with existing architecture, or a more modern look that contrasts well with older features.



Horizontal extensions

THE SKY'S THE LIMIT

If land does not allow to build outwards, a light frame construction allows you to build upwards. Again, you have the choice of architecturally blending in or making a bold statement, and there are ROCKWOOL stone wool products to suit either option.



Vertical extensions

RAISE THE ROOF

Some products in our range are suited to insulation between and below the rafters. The high density of stone wool maintains a comfortable indoor climate both during hot summers and cold winters. All work can be applied from the inside.

Others are ideal for insulation above the rafters. Recommended when you want to have a visible wooden structure inside. It will help you to obtain comfortable indoor summer and winter temperatures and improve acoustics. All work can be applied from outside.

MAKE WOOD WORK

Slim-fitting products maximise space when insulating timber frame constructions. Our slabs are easy to fit, do not sag or change over time, and deliver long-lasting performance.



Stone wool insulation performs for

+55 years

More reasons for choosing ROCKWOOL stone wool

- Provides fire safety for light frame structures
- Can be cut to exact sizes, so it provides an excellent fit in wooden structures
- Maintains a comfortable temperature in a light building
- Requires zero maintenance

ROCKWOOL Group can also provide:

LAPINUS® NOISTOP FENCES

- When you want to protect your home from unwanted noise and create a quiet and comfortable living environment
- When you want modern Scandinavian-styled Noisestop fences that effectively dampen and absorb noise



SOLAR PANEL INSULATION

Solar panels reach very high temperatures and heat loss can cause problems, both for their energy efficiency and the roof beneath them. ROCKWOOL have a range of specialist insulation that is designed to make solar panels operate safely and more effectively.



ROCKWOOL stone wool insulation in action

The house that works with the weather.

Family house, Cherasco, Italy

With the help of stone wool insulation, an old building can keep its traditional appearance but with 21st-century levels of energy performance and comfort, creating the perfect sustainable family home.

Owner and architect Maria Grazia Novo was motivated by "the desire to change and improve the family home".

The house she chose for her family dated back hundreds of years and needed to be totally renovated while staying in harmony with local building traditions. A concern for environmental impact (and the lack of mains gas for heating) led the architect to opt for a "passive house".

Insulation is central to the passive approach, which aims to reduce the

energy needed for heating and cooling by up to 90%. ROCKWOOL materials are perfect for sustainable standards because they offer excellent thermal insulation, are vapour-permeable and have a long lifespan. And because ROCKWOOL insulation can be easily fitted within a house's roofs and walls, it has no impact on the building's appearance.

Use up to
90%
less energy than
a traditional building



Now it's your turn...

You may just want to insulate a ceiling or a room. Or you may want to do something more ambitious like the real-world example of ROCKWOOL stone wool insulation in action shown here. But whatever improvements you are planning, there are ROCKWOOL products that can improve your end results by:

- Regulating temperature all year round
- Cutting energy bills
- Reducing noise
- Protecting from damp, mould and fire

Find out more about ROCKWOOL stone wool insulation at rockwool.com/renovation



