

EDITION 04/2024

INSULATED BRICKS with stone wool

Bricks with a ROCKWOOL core

**INSPIRED
BY
NATURE.**



CORE SOLUTIONS

Why stone is fundamentally important for our modern lives.



Safety, shelter and happiness

are basic human needs. The hidden qualities of volcanic rock are also fundamental. And we have been developing products from this material to improve people's lives for 80 years. Using our premium quality insulation, we tap the potential that natural stone offers to all of us.

Protecting human life

is an utmost imperative – be it at home, workplaces or in public buildings. The high-level fire protection our non-combustible ROCKWOOL insulation delivers a degree of safety that we call “1000° C responsibility”. This means that in the event of fire, valuable time is gained to rescue people – all thanks to a material that was put through its paces when it was first formed.

Our ROCKWOOL insulation

enriches modern life in numerous ways. In buildings, its acoustic properties, for example, protect us from noise originating from outside or inside. The low thermal conductivity of our products helps to save energy. And being a role model for climate protection and sustainability is stone wool's nature!

We create far more than insulation

from volcanic rock's natural power. Its properties are the key to long-lasting solutions that result in vital improvements in each and everyone's lives. Get the good feeling of shaping living environments with the use of safe insulation that is designed for the future!



Why do we use a volcano as our trademark? Because it symbolises the volcanic origin of the natural stone we use to manufacture our stone wool solutions. Volcanic rock exists naturally in abundant quantities and this enables us to develop premium quality, long-lasting and sustainable products for modern life that are instrumental in coping with global challenges, such as the climate change, resource scarcity or urbanisation.





Stone wool solution – the smart decision

Walls with inner values

The best possible advice for those wanting to build residential buildings with the highest energy efficiency standards, sustainability and the ultimate in home comforts is to use bricks with the ROCKWOOL stone wool core.

They are the perfect symbiosis of materials delivering a natural, stone wool brick solution with integrated thermal insulation that offers many advantages. **It really pays off both during construction and when in use.**



Leaner and more economic building



ROCKWOOL stone wool with an excellent thermal conductivity of up to 0,033 W/(m·K) significantly increases the U-value of a brick wall. This provides thin and strong exterior walls with very good U-values. **The living space gained pays off for investors and inhabitants alike.**

5,0 m² more living space with 40 linear metres of wall¹ through thinner brickwork – that is 36.5 cm instead of 49.0 cm!

More sound protection, more user comfort



Sound protection is active health protection!

Good sound protection plays a vital role, especially when constructing multi-storey residential buildings. Bricks with the ROCKWOOL stone wool core improve a wall's sound insulation and, in doing so, significantly contribute to a basic human need: quiet and relaxation within one's own four walls for better health and well-being.

Exemplary workability and recycling

The ease of handling of ROCKWOOL stone has been highly rated by professionals for a long time. This also goes for bricks including an integrated ROCKWOOL core as they can easily be sawn, drilled or bevelled.

And separating materials during construction or later when demolishing or dismantling a brick house (using the winnowing method) is very simple. **Stone wool that has been sorted can easily be integrated in the ROCKWOOL recycling process.**

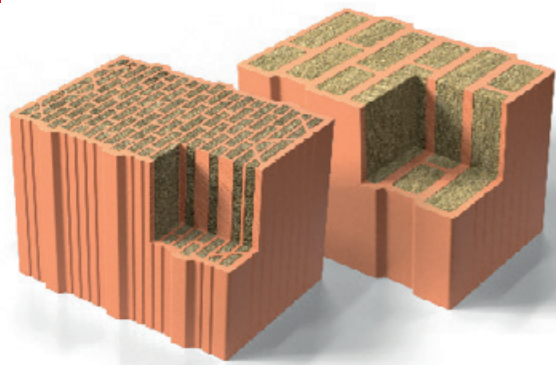


ACTIVE ENVIRONMENTAL PROTECTION

A previously used ROCKWOOL core can be recycled 100% when producing new stone wool insulation!

Material separation during dismantling

1



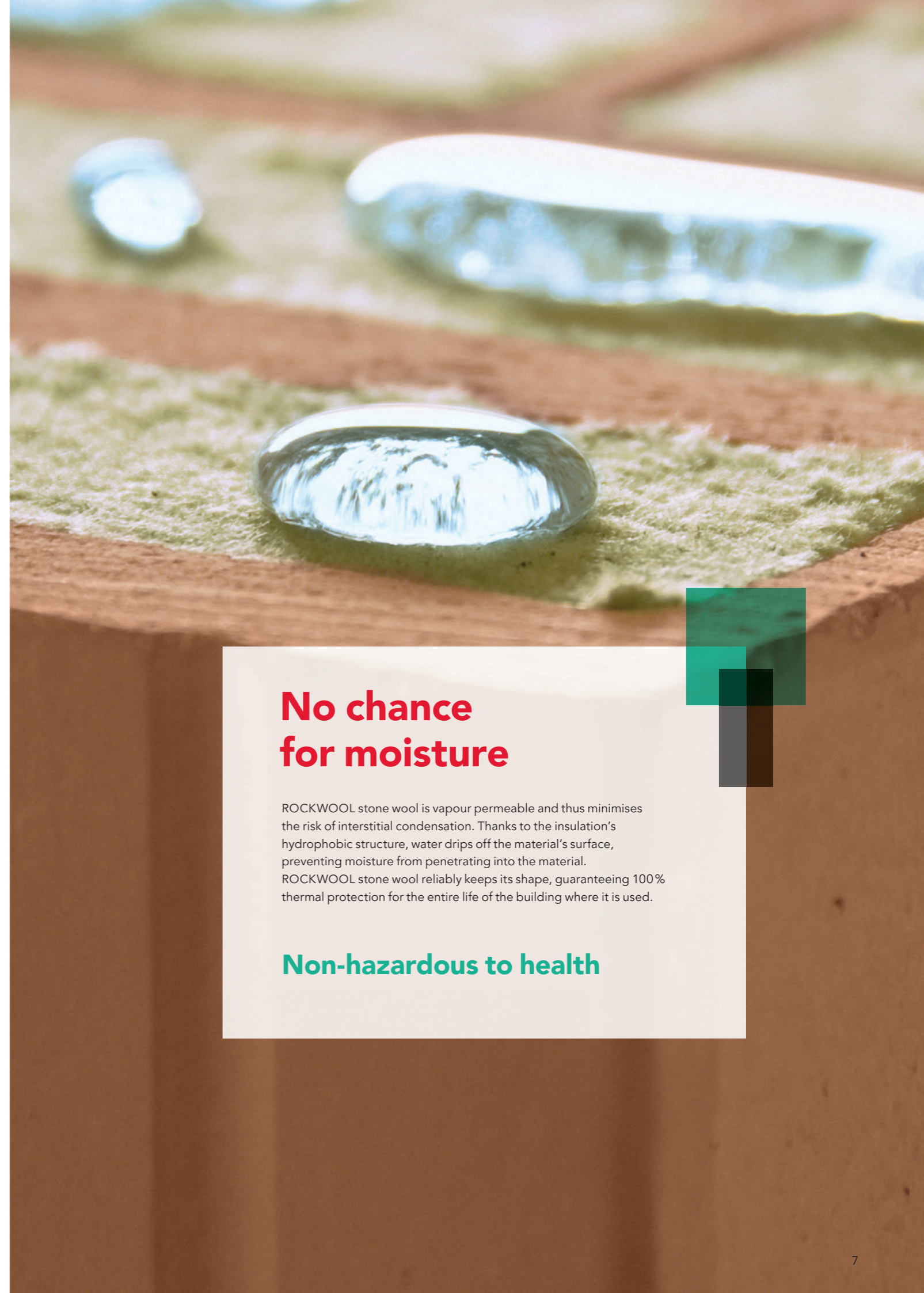
2



3



4



No chance for moisture

ROCKWOOL stone wool is vapour permeable and thus minimises the risk of interstitial condensation. Thanks to the insulation's hydrophobic structure, water drips off the material's surface, preventing moisture from penetrating into the material. ROCKWOOL stone wool reliably keeps its shape, guaranteeing 100% thermal protection for the entire life of the building where it is used.

Non-hazardous to health

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