



4 facts about the durability of stone wool



DURABLE
BY
NATURE.

With 1,000,000 people moving to urban environments every week, it's a growing challenge to build cities that can support their populations now and in the future. Thankfully, stone wool supports the development of sustainable and resilient cities.

1

ROCKWOOL stone wool is durable by nature, just like the basalt rock it is made from. It keeps its shape and thermal performance in all conditions, and is resistant to both corrosion and mould. Its performance is unaffected by weather, humidity or temperature changes – and needs no technical supervision or maintenance throughout the building's lifetime.

Here are four important facts about the durability of stone wool:

Stone wool lasts the lifetime of the building

A durable construction product is one that maintains strong performance throughout its lifetime and does not need maintenance or regular replacement. Stone wool fits this description.

2

Stone wool's thermal performance remains

Sample testing from existing buildings shows that ROCKWOOL stone wool retains its performance for 55 years – and counting! Its thermal performance remains constant over time, crucial in ensuring that energy is consistently saved throughout the lifetime of the building.

To explore the exceptional natural properties of stone wool further, visit:
<https://www.rockwool.com/group/by-nature/>



3

Stone wool insulation does not promote corrosion, and is resistant to mould and mildew

Corrosion is defined as the destructive and unintentional degradation of a material caused by its environment¹. A common type of corrosion is rust, which affects iron and steel structures. When exposed to moisture, some types of insulation products can release components that increase corrosion on metal surfaces. Stone wool does not promote corrosion, and will not be impacted by it.

4

It's resistant to mould and mildew

As a non-organic and vapour permeable material with excellent drying potential, stone wool helps avoid mould and mildew caused by high humidity levels in moist rooms such as bathrooms and kitchens. Samples collected from real buildings have proven that its performance remains constant over time.

1. UNSW Sydney, School of Materials Science and Engineering, Faculty of Science, definition of corrosion, available via <http://www.materials.unsw.edu.au/tutorials/online-tutorials/1-what-corrosion>, accessed at 23 Jan.2020



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At the ROCKWOOL Group, we are committed to enriching the lives of everyone who comes into contact with our solutions. Our expertise is perfectly suited to tackle many of today's biggest sustainability and development challenges, from energy consumption and noise pollution to fire resilience, water scarcity and flooding. Our range of products reflects the diversity of the world's needs, while supporting our stakeholders in reducing their own carbon footprint.

Stone wool is a versatile material and forms the basis of all our businesses. With approx. 10,500 passionate colleagues in 38 countries, we are the world leader in stone wool solutions, from building insulation to acoustic ceilings, external cladding systems to horticultural solutions, engineered fibres for industrial use to insulation for the process industry and marine & offshore.

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