



**3** FACTS ABOUT | **The effects of moisture**  
on stone wool ceiling tiles

**Sounds Beautiful**



**Water may be vital for life, but when it comes to buildings it's the cause of major problems, like mould, rot and corrosion, which can undermine the structural integrity of the building.**

So when it comes to building construction, having materials that do not absorb moisture is essential.

Stone wool ceiling tiles are one of these materials, which make them the perfect choice for a safe and healthy ceiling.

So how exactly stone wool ceilings achieve that? Find out in these three key facts:



## 01 Stone wool does not absorb moisture from humidity

An important consideration is whether your material is 'non-hygroscopic', which means it won't absorb or retain moisture from the air. This is especially crucial if you are looking for the right ceilings for humid environments, like bathrooms and kitchens. Stone wool ceilings are often used for their non-hygroscopic properties, because they can be exposed to moisture without absorbing any of it. In fact, they won't warp or change at all. Moisture has no effect on a stone wool ceiling's physical, acoustic or mechanical performance, so you can be sure "it will hold up through even the most humid conditions".

## 03 Ugh, mould and mildew? No thanks!

Mould originates from fungus that reproduces through spores that float through the air and can find a fertile ground to grow in a damp, organic surface. As the mould grows it can create a big damage to the material and an undesirable visual effect. The exposure to mould can have a potential health effect to people, as it can cause skin and respiratory infections.<sup>1)</sup> Because our stone wool and metal ceiling products are not organic, they do not promote the growth of mould or bacteria. Through their inherent composition, there is no need to have additives such as fungicides or antimicrobials to achieve these mould-resistant properties.

1) Center for Disease Control and Prevention, 2021, "Mold", available via <https://www.cdc.gov/mold/>, accessed Jan.2021.

## 02 Moisture does not affect stone wool ceiling tiles' performance

When designing a safe and comfortable building, you need to be able to rely on robust materials that will last the test of time. Because stone wool does not absorb or hold any moisture of any kind, you can relax knowing it will perform at peak for its entire lifetime. A stone wool ceiling product will never sag, droop or warp due to moisture.

When you're looking to design a moisture-resistant and mould-free environment, stone wool ceiling tiles offer the ultimate solution. Their clever design means your ceilings remain dry, safe, intact and resilient, with no drop in performance over time.

➤ **Inspired to learn more about moisture and stone wool? Explore the product benefits section on our webpage.**

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