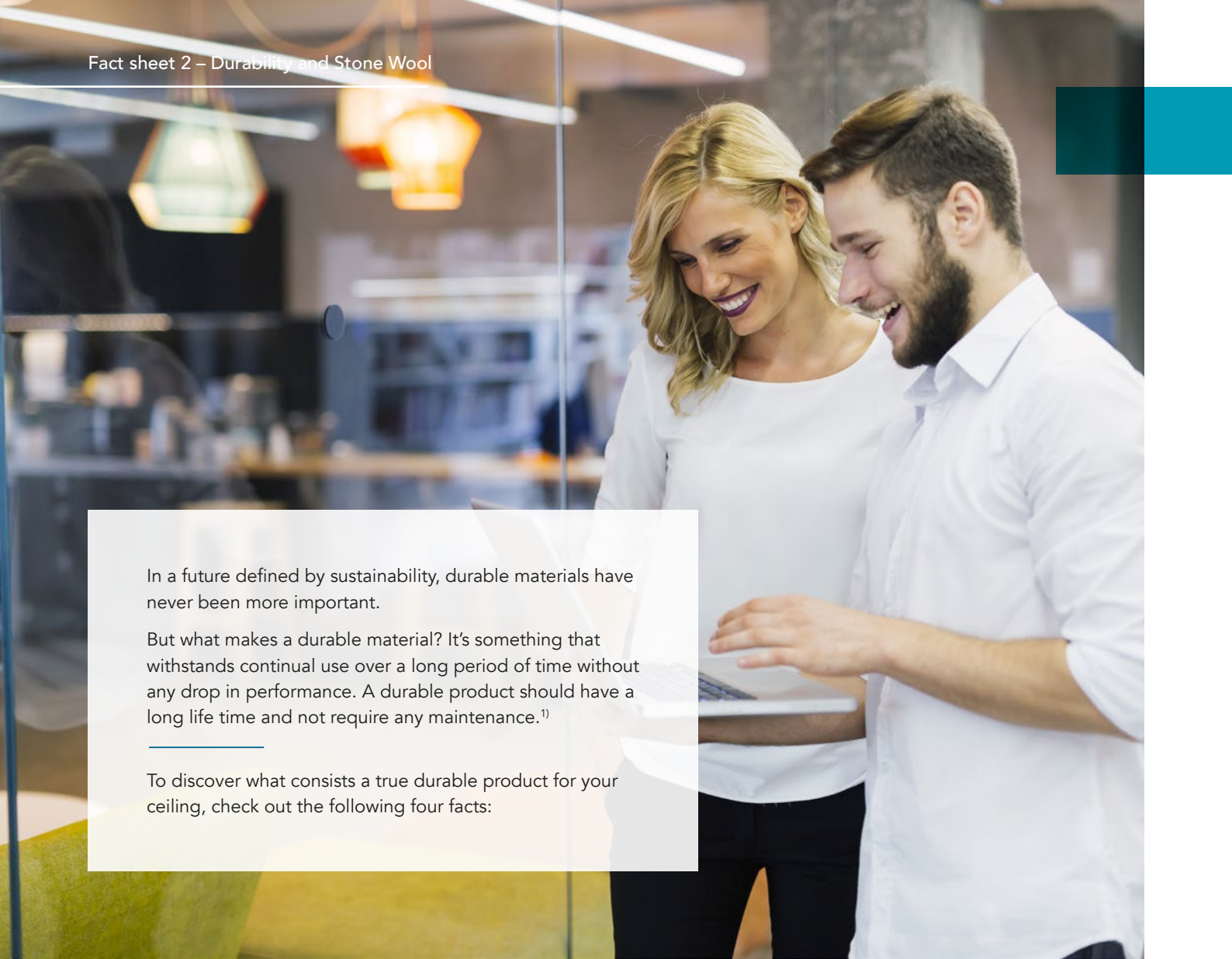




**4** FACTS ABOUT | **Durability** and stone wool ceiling tiles

**Sounds Beautiful**



In a future defined by sustainability, durable materials have never been more important.

But what makes a durable material? It's something that withstands continual use over a long period of time without any drop in performance. A durable product should have a long life time and not require any maintenance.<sup>1)</sup>

To discover what consists a true durable product for your ceiling, check out the following four facts:

## 01 How do we know it's durable? Two ways.

A building is only as durable as its materials. So how do we decide what to use? Durable construction materials must satisfy two major requirements:

- The material must maintain consistent performance – such as through its acoustics, fire performance and lack of moisture absorption which can prevent mould growth.
- The material must last a long time, relative to its intended use.

By considering whether a material can last a long time and deliver consistent performance, we can construct buildings that stand well into the future. This applies to every material used in construction – from foundations to ceilings. Certain products, such as stone wool ceilings, offer very good durable performance in terms of acoustics, fire and moisture prevention.

## 02 Durable materials give multiple benefits.

A truly durable material should keep its performance for a long time without maintenance or regular replacement. That means durable materials are a better investment in more ways than one: they consume less resources, create less waste, and can spread the impact of their manufacturing over a longer period of time. In this way, durability is an important aspect of eco-efficiency and sustainable production and consumption.

1. The Durability of Products: Standard assessment for the circular economy under the Eco-Innovation Action Plan, EU Commission, 2015.

### 03 Ceilings should be durable, too.

Ceilings are often the last thing that gets renovated. The same ceiling can stay in place for decades, so it's crucial to install a product that is going to last a long time and look great while doing it. It might even be worth considering a modular ceiling design, with tiles can be easily changed over time to adjust the acoustics of a space.

To create a beautiful, comfortable space with great acoustics, we need a durable ceiling. Stone wool ceiling tiles are a robust solution, because they are durable and offer consistent performance. Stone wool is moisture resistant, so the ceiling tiles will never warp or sag, even in humid environments. They also maintain their acoustic properties over time, so you can be sure the ceiling sounds as great as it did the day it was installed.

Fire safety is another important consideration. A durable ceiling should be non-combustible and fire resistant . Non-combustible stone wool ceiling tiles retain their fire resistance over time, which gives you extra time for a safe escape in the case of fire.

### 04 Mould, mildew and corrosion? No thanks.

A truly durable product should be able to withstand the pressures of mould, mildew and corrosion.

That's why stone wool is such a powerful material as it does not promote corrosion and it will not be impacted by corrosion. What's more, because it is non-organic and vapour permeable, stone wool "breathes" with the activities of the building and dries out easily, even in moist spaces like bathrooms and kitchens.

A truly durable material should last a lifetime, while providing top quality acoustics, moisture, fire resistance and eco-efficiency throughout the buildings lifetime. Stone wool is unique in it's ability to do just that.



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

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