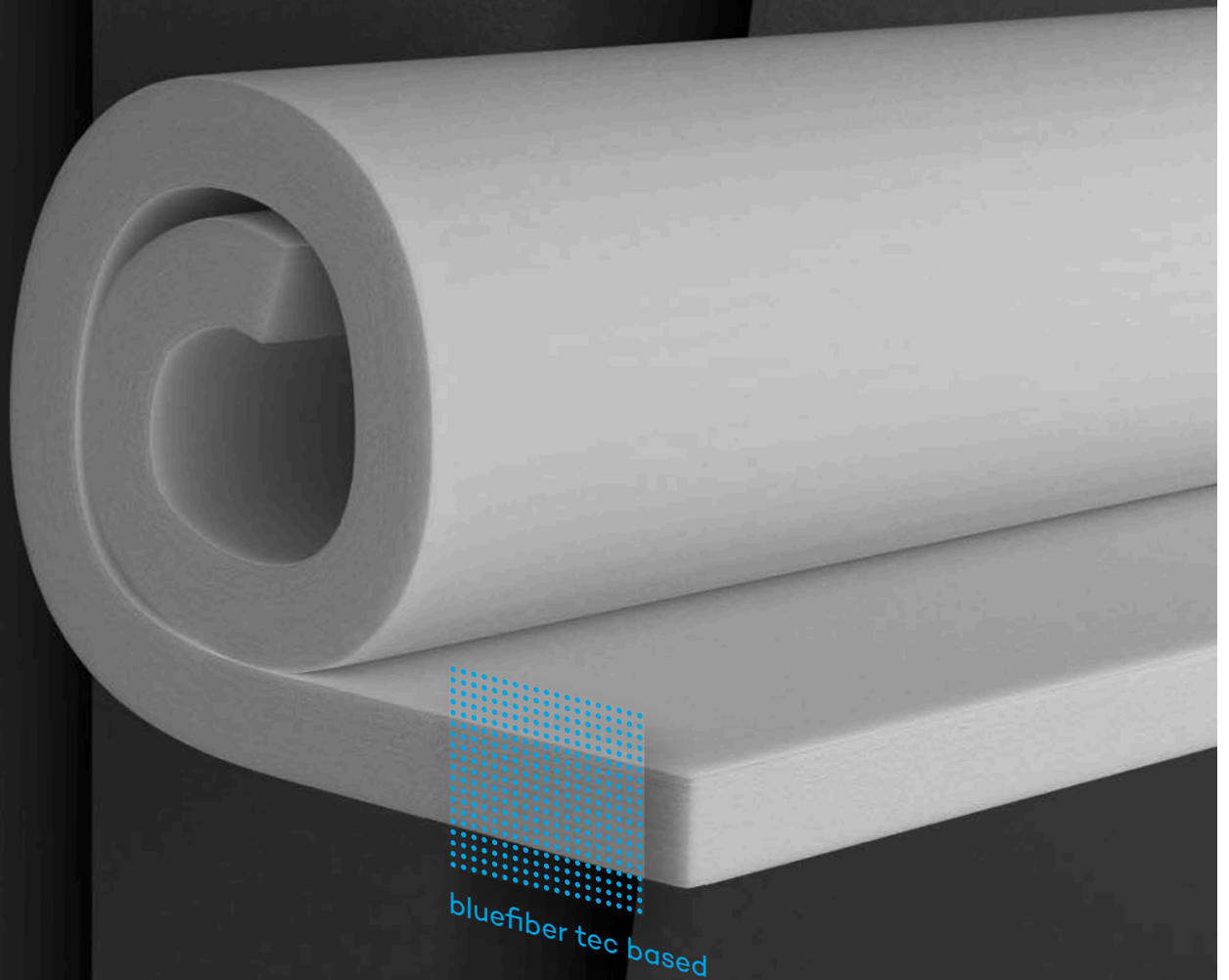


# bluefiber

smart acoustic technology




## smart acoustic wool

Highly efficient sound absorption using  
polyester-based high-tech in every fiber –  
lightweight and high-performance.

[bluefiber.sandler.de](http://bluefiber.sandler.de)

a brand of **sandler**

# The durable solution



### smart acoustic wool

Lightweight and highly efficient in sound absorption

bluefiber smart acoustic wool makes homes, workspaces, and public buildings quieter places. bluefiber products impress with their extraordinary lightness and resistance to moisture, coupled with excellent performance.

Suitable for e.g.:

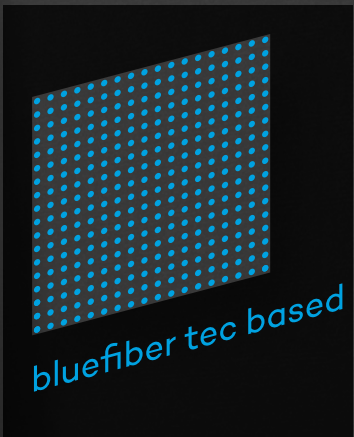
acoustic layer   acoustic backing   cavity absorber   ...

## Ready for use in your application

Our smart acoustic wool is available in a variety of versions. Choose the material thickness and color that is best suited to efficiently implement your idea. Owing to our technology and years of experience in working with polyester we create high-performance solutions for the acoustics sector.

# bluefiber tec based signifies quality – you have our word

bluefiber combines safety, quality and, above all, innovative technology. This smart acoustic technology is not only the basis for bluefiber products, it is also a seal of quality for acoustics solutions made from it. Choose quality you can build on.











# The kit for ideal acoustics

## smart acoustic kit

For the right wool for you

Discover our smart acoustic wool in thicknesses of 15, 20, 30, and 40 mm, all available in two colors. The smart acoustic kit provides you with a handy modular system, from which you can choose the perfect product for your application. To further increase performance, you can also combine multiple layers.

Thickness	15 mm	20 mm	30 mm	40 mm
Multiple layers possible				
Form of delivery	rolls, film-wrapped	rolls, film-wrapped	rolls, film-wrapped	rolls, film-wrapped
				
	1,20 × 48 m	1,20 × 36 m	1,20 × 24 m	1,20 × 18 m

### Color versions



white



black

# The right choice for your project



## smart acoustic features

Properties that will win you over

You are looking for a high-performance acoustic product, which offers efficient sound absorption at low weight? bluefiber wool offers exactly the smart acoustic features you require. Experience the performance of these products for yourself.

Sound absorption

bluefiber wool features top values in sound absorption. Depending on the thickness of the material, particularly medium and low frequencies can be absorbed.

Thermal insulation

bluefiber wool combines acoustic performance and heat insulation. In practical application it is also used as insulation between the rafters (WLG035).

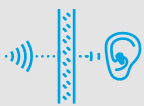
Moisture-resistant

smart acoustic wool is not affected by moisture and therefore particularly resistant to vermin and mold. This durability is one of its distinguishing features.


Gentle on the skin

The polyester fiber is a particularly safe raw material. Our bluefiber wool is therefore gentle on the skin and does not cause irritation.


Only the best properties combined




sound-absorbing




flame-resistant




recyclable



moisture-resistant



gentle on the skin



heat-insulating

# Acoustically highly efficient

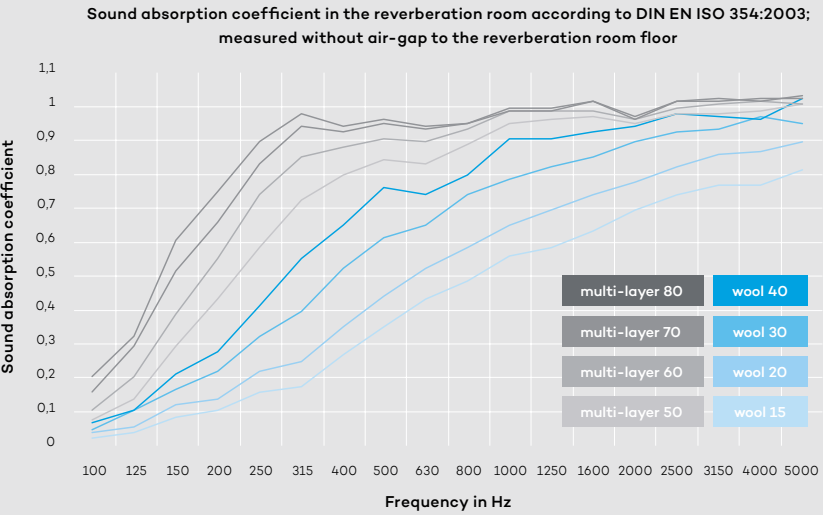


## smart acoustic efficiency

Results that speak for themselves

Being thermally bonded, bluefiber wool combines the best properties of a highly efficient acoustic material. Acoustic measurements and field tests carried out with the smart acoustic product confirmed that the high quality standard of our material exceeds the usual market level. The use of multi-layer versions can further enhance this exceptional performance.

### bluefiber wool in testing



At lower thickness and low material use bluefiber wool achieves equivalent results compared to the competition. An efficient acoustics solution that also conserves resources.

The test results achieved by our smart acoustic wool speak for themselves: the higher material thickness, the higher the sound absorption coefficient. Choose the right wool for your requirements. Please contact us for more information.

» A room's acoustic quality is also influenced by its geometry, the selection and distribution of sound-absorbing and sound-reflecting surfaces, as well as by reverberation time and noise. «

(excerpt DIN 18041 standard – audibility in rooms –)



# The right fit for your application

## smart acoustic examples

### Different thicknesses for every use

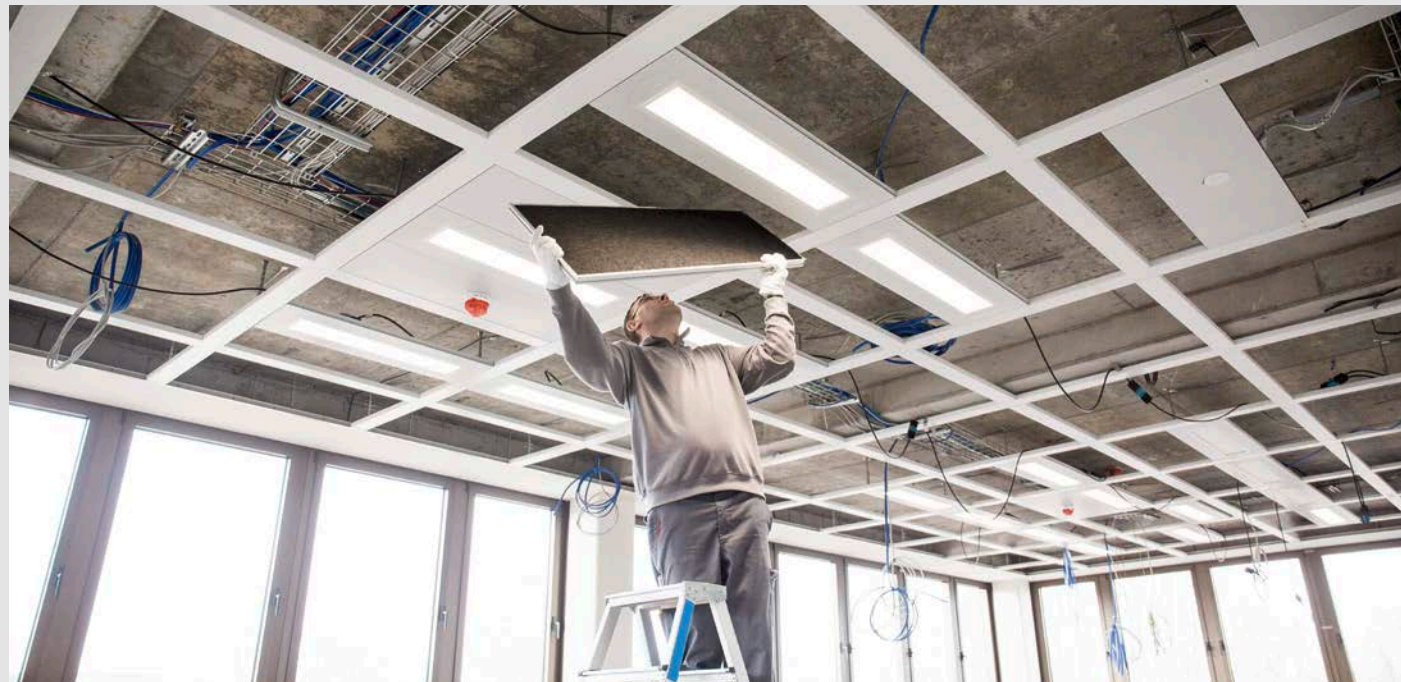
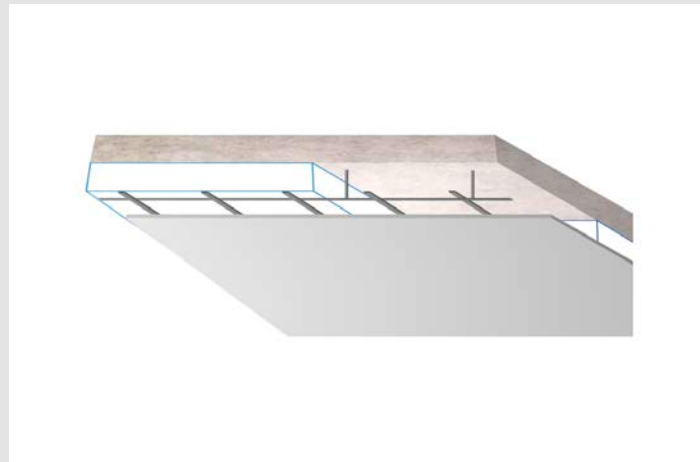
The different versions of smart acoustic wool are suitable for a variety of applications. The product's great advantage is its fast and easy application in practice. No matter what type of project you are looking to implement: bluefiber products are available in the right material thickness. If you have other requirements for the smart acoustic wool, please do not hesitate to contact us. We will be happy to advise you in more detail!

#### Case study

### bluefiber wool / construction

**Acoustic backing / cavity absorber,  $\alpha_w$ -value: 0.75 (H),**  
(measured without air-gap to the reverberation room floor, material thickness 40 mm)

bluefiber wool is applied as a broadband absorber layer in suspended ceilings and wall coverings. Its open-pore structure allows for cavities to be efficiently sound-insulated at low material consumption. Not containing any glass or mineral fibers, the material meets all building biology specifications even without film packaging, for fast and effective installation even in damp locations.



# Ready for action with every fiber

## smart acoustic applications

### Strong in application & ready to use

Looking to implement your idea for an acoustics project? bluefiber products are perfectly well thought out – whether you plan to use them for interior acoustics, the construction industry or in technical insulations. Utilizing smart acoustic technology, bluefiber wool is suited for a variety of applications.



## Shhh! Time for some quiet!

Wherever you are looking to apply the smart acoustic wool: bluefiber products always feature efficient sound absorption. bluefiber wool is also light as a feather and moisture-resistant – this we guarantee through our unique technology, our certifications and decades of experience.

## Optimized acoustics – sustainable and recyclable!

With bluefiber you are choosing acoustics products, which offer performance as well as sustainability. In manufacturing our products we follow the cradle-to-cradle principle by ensuring that our material design is as waste-free as possible through closed technical cycles. Made from 100 % polyester, our textile fiber mats are fully recyclable even after many years of use.

We use recycled fibers produced from discarded PET bottles and reprocess residual raw materials in a sustainably structured manufacturing process. This way, the use of new resources is kept to a minimum. Free from harmful substances and produced without chemical additives, bluefiber materials do not pose health risks to workers and users alike.

### smart acoustic recycling



Have you heard about our circularity initiative? Get in touch with us and find out more.



# bluefiber

smart acoustic technology