



# Canwool

ABSORBER MADE OF HEMP



## Product properties

- 10 dB absorption
- 28 dB sound insulation
- Fire class 3
- Permanent
- Testing according to EAD 040083-00-0404
- Meets the requirement for fire resistance under DIN EN 1794-2:2011, Class 3

## Advantages



Water-efficient and fast cultivation



By-product of CBD production



Highly sound-absorbing noise protection



Multiple times recyclable



Renewable raw material



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**Absorber made of hemp**

Can be used for all standard noise-protection panels.



## What is Canwool? – The New Sound Absorber Explained

Canwool is a sound absorber made from compressed hemp fibres, used as an insulating material in noise protection walls. The product can be installed in standard, space-saving noise protection cassettes, such as the Climatewall Rock Extensive.

Hemp was chosen as the raw material due to its convincing ecological properties: On the one hand, hemp is a renewable resource that is extremely easy to cultivate, as it thrives under a wide range of site conditions – and does so remarkably fast. On the other hand, it requires neither intensive irrigation nor the use of pesticides, as is the case with cotton, for example, since the hemp plant is highly resistant to fungal infestation and weeds.

The natural fibres used by Climatewall as sound absorbers are also a by-product generated during the production of CBD products. Canwool offers highly effective noise protection and even ensures that the smallest components of the production process are put to use. Hemp fibres like Canwool – are recyclable multiple times. They can be seamlessly reintegrated into the production cycle.

### Classification of acoustic properties

	Sound insulation	Absorption
Canwool	DLr = 28 dB	DLa = 10 dB



# Technical Data Canwool

**Material:** Hemp fibres pressed into sheets

**Density:** Approx. 140 kg/m<sup>3</sup>

**Dimensions:** D: 50mm H: 250mm/500 mm, L: max.2000 mm



**Weathering according to EAD 040083-00-0404**

Result: No significant change in the hemp panels



**Fire test according to DIN EN 1794-2:2011 Annex A**

Result: Requirements meet Class 3



**Sound absorption test according to DIN EN ISO 354 and determination of the single number rating (DL<sub>a</sub>) according to DIN EN 1793-1 as well as the degrees of sound absorption coefficient (α<sub>s</sub>) according to Ril 804.5501 from DB Netz AG**

Result: according to DIN EN 1793-1 DL<sub>a</sub> = 10 dB



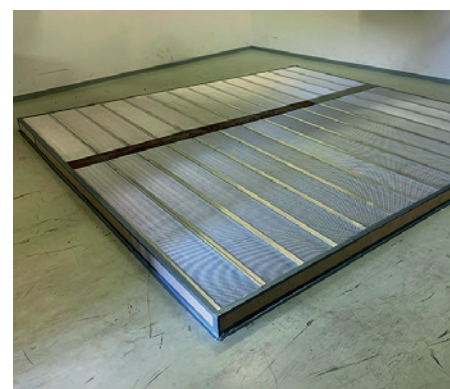
**In-situ testing of sound transmission according to DIN EN 1793-6**

Result: 28 dB



**In-situ test of sound reflection according to DIN EN 1793-5**

Result: Highly absorbent



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