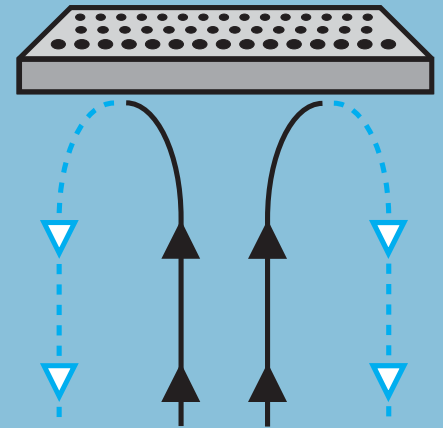


## K761



Drywall and Floor Systems

2008-05

## K761 Cleaneo Akustik

Gypsum boards for sound absorption including air-cleaning effect

### Product Description

Knauf Cleaneo Akustik is a Gypsum Apertura Board according to DIN EN14190 with air-cleaning effect as a result of the addition of Zeolite. Zeolite is a natural, hydrous rock of volcanic origin.

Structures with large inner surfaces evolve during dehydration in the production process of Cleaneo Akustik.

The scale and ratio of pollutant reduction depends mainly on the configuration rate (Cleaneo ceiling area to room volume).

It is recommended to install Cleaneo Akustik on the maximum possible surface.

Knauf Cleaneo Akustik have a pink colored rear boardliner and an ivory colored face boardliner. A black or white fiber fleece is laminated on the rear. Omission of fleece on request.

Building material class  
acc. to DIN EN 13501: A2

Sound absorption  
index: acc. to Knauf Technical Data Sheet D12

Board thickness: 12.5 mm

Sizes, perforations and edge types:  
acc. to Knauf Technical Data Sheet D12

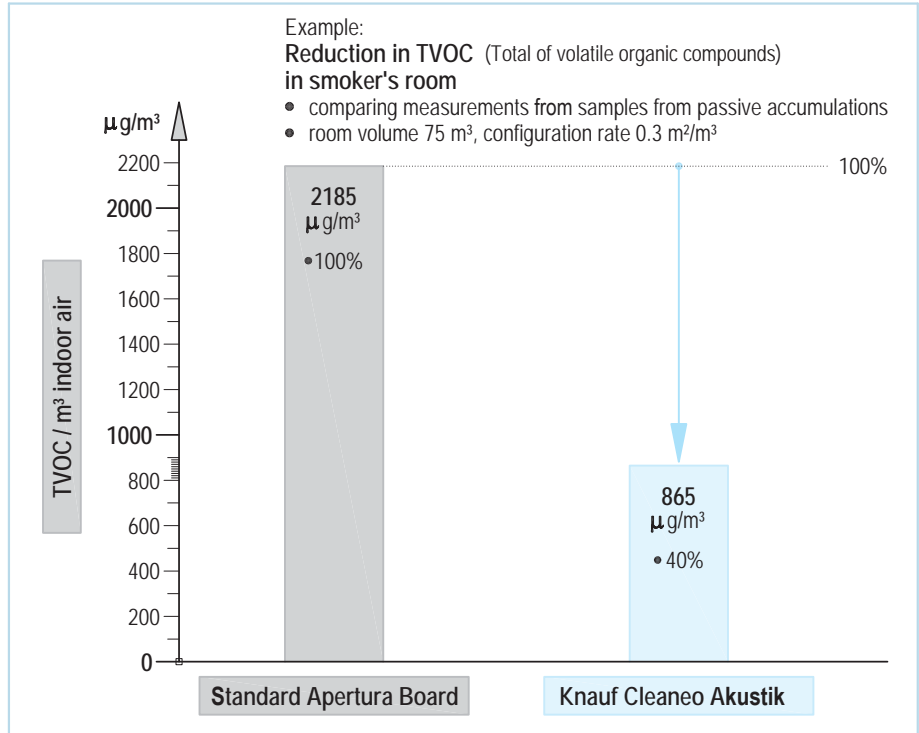
Storage: dry on board pallets

## Rationale

Due to the useful energy requirements to their exteriors, new buildings are usually "air tight". The disadvantage is the insufficient air exchange rate because the "natural" exchange of indoor air through leaks such as open joints is not guaranteed anymore. Hence the accumulation of pollutants in indoor air becomes a renewed challenge.

Especially critical are volatile organic compounds (VOCs) that can make their way into indoor air in different ways, e.g. through emissions from floor coverings, furniture, cleaning + care agents and cigarette smoke. These substances not only have an unpleasant odor but can, depending on their concentration, be particularly harmful to health (e.g. allergies, headaches).

Knauf Cleaneo is able to reduce the concentration of these pollutants in indoor air.



## Fields of Application

Cleaneo Akustik Boards are applied mainly as the cladding of ceilings to improve the Akustikal properties and sound absorption in rooms and/or to create individual design effects.

Beyond that, the air cleaning effect of Cleaneo Akustik is an additional benefit because it improves the indoor climate and reduces pollutants in the air.

Extensive tests run at the Fraunhofer Institute for Building Physics with polluted air have been able to prove that the concentration of numerous volatile compounds can be significantly reduced by applying Cleaneo Akustik. Indoor air quality and living comfort improve greatly as a conse-

quence.

The reference gas mixture used for testing consisted of 22 volatile organic compounds, being characteristic pollutants of indoor air

Particularly significant reductions can be achieved in the concentration of substances such as polarized volatile compounds like alcohol, aldehyde, ketones or ester (typical emission in cleaning agents).

At the same time unpleasant odors can be noticeably neutralized. This property was proven with the help of human-olfactory researches with odorous gases of feces or food (e.g. fish). The advantageous effect of these boards was addi-

tionally proven by pollution measurements in a real room for smokers before and after installation of Cleaneo Akustik.

Ideal fields of application are

- Schools, kindergartens
- Hospitals, nursing homes
- Hotels, restaurants
- Offices
- Other public facilities and buildings (public buildings, shops, banks etc.)

## Application

For construction and application refer to the current edition of Knauf Technical Data Sheet D12 „Knauf Cleaneo Akustik Ceilings“.

## Coats

Prime gypsum board surfaces before the application of coats according to Code of Practice no. 6 "Vorbehandlung von Trockenbauflächen aus Gipsplatten zur weitergehenden Oberflächenbeschichtung bzw. -bekleidung", published by IGG. Ensure that the primer and the coat or paint are compatible.

Refer to Technical Data Sheet D12 for suitable coats.

### Note

If Knauf Cleaneo Akustik Boards are coated with diffusion-open coats, e.g. dispersion paint, their effect will only marginally be reduced.

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\*\* 0.14 €/min

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