

# Troldekt® A2 acoustic panels

## Data sheet

### THE PRODUCT – TROLDTEKT A2

Troldekt A2 are cement-bonded wood wool panels made from wood and cement. The product consists of wood (spruce) which is shredded into wood wool and mixed with cement.

We offer PEFC™-certified or FSC®-certified Norway spruce (FSC® C115450). Both certifications guarantee that the wood

comes from responsible forestry operations and other controlled sources.

Troldekt can be surface-treated, but is often used unprocessed (natural wood). Due to the nature of the material, colour variations may occur. To achieve an even distribution of the colour tones, we recommend mixing the panels during

installation. Among the factors affecting colour variations are water/cement ratio, water content of the wood, drying rate, steam curing and curing moisture.

### PRODUCT STANDARDS, LABELLING AND CERTIFICATIONS

#### CE-marking

Within the EU, all building materials are legally required to be CE-marked. The CE-mark indicates that the building material can be legally sold and that it complies with the product standard to which the mark refers. Troldekt products are CE-marked, and in addition to the marking we state:

Name of producer:  
Troldekt A/S

Certifications:  
0615-CPR-222958G  
0615-CPR-80474G

Product standard number:  
EN 13168 and EN 13964

Declaration:  
See product data on page 2

#### Other approvals

**Cradle to Cradle:** Troldekt is Cradle to Cradle-certified at Gold level. Troldekt acoustic panels are documented as being free of harmful substances and can therefore safely be returned to the biological cycle. Additionally, waste from the production of Troldekt acoustic panels is returned to the technical cycle and used as a resource in new cement at Aalborg Portland.



**M1 classification:** Troldekt is M1-classified by the Finnish Building Information Foundation RTS sr. This is the best category, and means that the panels have an extremely low emissions level for volatile organic compounds (VOC).



**Blue Angel:** Troldekt is eco-labelled under the German Blue Angel eco-labelling scheme, which guarantees that the product has a low impact on the environment and the climate and meets high standards for health protection.



**PEFC and FSC:** Troldekt is PEFC™ and FSC®-certified (FSC® C115450), which means that all our products are manufactured using wood from responsible forestry operations and other controlled sources. Customers can choose whether they want their Troldekt acoustic panels to be FSC or PEFC-certified.



**Light reflection:** Light reflection for different types of Troldekt panels (measured by DELTA/Force Technology):

Troldekt white 101	70.8 %
Troldekt natural wood	55.2%
Troldekt natural grey	26.3%

### USE AND MAINTENANCE

Troldekt panels usually require no subsequent care. However, we recommend regular cleaning along with other surfaces – and otherwise as required. Light cleaning of the panels is easy using a vacuum

cleaner with a brush nozzle. Should vacuum-cleaning prove insufficient, you can wipe the panels using a lightly damp cloth. If you subsequently want to paint the Troldekt ceiling, you can use a hand

sprayer. Water-based paint will not reduce the sound-absorbing performance of the panels.

## RECYCLING

The entire range of Troldtekt cement-bonded wood wool panels are Cradle to Cradle-certified in the gold category. Consequently, we have complete documentation of the substances in the products, and documentation that the products can be composted and safely returned to nature as a soil conditioner.

The cement in Troldtekt's acoustic panels boosts oxygen levels during the composting process, while the wood adds organic material to the compost.

## TOLERANCES

It is important to note that Troldtekt consists of the natural material wood - together with cement extracted from Danish mineral resources. The very nature of this material composition will incur small

variations in the panels. Panel dimensions and weights remain inside the tolerance indicated at 23 +/- 2 °C and 50 +/- 5% relative humidity. However, inappropriate storage and lack of acclimatisation could alter panel

dimension and weight. It is therefore important that you observe the installation, storage and acclimatisation instructions carefully.

## PRODUCT DATA

The table below indicates the tolerances declared by us in accordance with EN 13168, the standard for cement-bonded wood wool and double-layer panels with cement-bonded wood wool, and EN 13964, the standard for suspended ceilings.

### Properties:

DIMENSIONS	
Width (mm)	600
Length (mm)	600/1200/2400
Thickness (mm)	25 35

Weight (kg/m <sup>2</sup> )	
Fine	13.1 17.1
Ultrafine	13.2 17.6
Extreme fine	13.3 17.8

TOLERANCES	
Length (mm)	> 1250 : ±2.0
	≤ 1250 : ±1.0
Width (mm)	±1.0
Thickness (mm)	Length > 1250 : ±2.0
	Length ≤ 1250 : ±1.0
% by weight	±10
Perpendicularity (mm)	±≤ 2
Planeness (mm)	±≤ 3

### FIRE

Reaction to fire	A2-s1,d0
Acc. to EN 1350-1	

### SUBSTANCES

Chloride %	≤ 0.06
Formaldehyde	E1*

### STANDARD

Declared in accordance with	EN 13168 EN 13964
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\* No measurable formaldehyde emission

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