

## Data sheet

### THE PRODUCT – TROLDTEKT ACOUSTIC PANELS

Troldtekt 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.

Troldtekt can be surface-treated, but is often used unprocessed (natural wood and grey natural). Due to the nature of the material, colour variations may occur with both natural wood and grey natural. These colour variations are most evident in the grey panels, where the cement is 100% responsible for the grey Troldtekt look.

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 CERTIFICATES

#### CE marking

CE marking of building materials is required by law in the EU. The CE mark indicates that the building material in question can be legally sold and is in correspondence with the product standard to which the mark refers. Troldtekt products are CE marked and in addition to the marking, we state:

Name of the producer:  
Troldtekt A/S

Certificate numbers:  
0615 – CPD – 222958G  
0615 – CPD – 804474G

Product standard number:  
EN 13168 and EN 13964

Declaration:  
See product data on page 2

#### Other approvals

**Indoor climate certification:** Troldtekt is certified to the best indoor climate categories by the Danish Indoor Climate Labelling (Dansk Indeklima Mærkning).

**Ball impact certification:** A wide range of structures with Troldtekt Acoustics have been tested and certified for use as ceiling and wall cladding in sports facilities in accordance with 'Prüfung der Ballwurf-sicherheit, DIN 18032 Teil 3, Sportshallen für Turnen und Spiele' (requirements and testing of ball impact safety, DIN 18032, Part 3, sports facilities).

EN 13964 also includes ball impact certification as a parameter, and Troldtekt is classified as Class 1A.

**International approvals:**  
Sitac – Sweden  
Nemko – Norway  
Komo – The Netherlands

#### Light reflection

Light reflection for different types of Troldtekt panels (measured by DELTA Light and Optics):

Troldtekt white 101	70.8%
Troldtekt light natural	55.2%
Troldtekt grey natural	26.3%

### USE AND MAINTENANCE

Troldtekt 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 Troldtekt ceiling, you can use a long-haired paint roller or 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 the material composition - wood wool

and cement - 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> )		
Coarse	10.4	15.0
Fine	10.6	13.9
Ultrafine	11.4	15.2
Extreme fine	11.7	15.5
TOLERANCES		
Length (mm)	≥ 1.250 : ±2.0	
	≤ 1.250 : ±1.0	
Width (mm)	±1.0	
Thickness (mm)	Length ≥ 1.250 : ±2.0	
	Length ≤ 1.250 : ±1.0	
% by weight	±10	
Perpendicularity (mm/m)	±≤2	
Planeness (mm)	±≤3	

FIRE	
Reaction to fire	B/s1/d0

IMPACT RESISTANCE	
Ball impact certification	1A

SUBSTANCES	
Chloride %	≤ 0.06
Formaldehyde	E1*

INDOOR CLIMATE	
Degassing	10 days
Particle release	Low

STANDARD	
Declared in accordance with	EN 13168 EN 13964

\* No measurable formaldehyde emission

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