

Data sheet

THE PRODUCT – TROLDTEKT DESIGN PANELS - 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 design panels are surface-treated. Due to the nature of the material, colour variations may occur in natural wood panels and natural grey panels. These colour variations are most evident in natural 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).

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 silver 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 is a natural material and 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 (mm)

Product name	T	W	L
Line	35 x 600 x 1200		
Line design	35 x 604 x 1194		
Tilt line	35 x 600 x 1200		
Curves	35 x 600 x 1200		
Dots	35 x 600 x 1200		
Tiles	35 x 600 x 600		
Puzzle	35 x 600 x 600		
Rhomb mini	35 x 600 x 693		
Rhomb hatch mini	35 x 600 x 693		
Rhomb	35 x 600 x 1039		
Rhomb hatch	35 x 600 x 1039		

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

WEIGHT (ultrafine structure)

Product name	Weight
Line	13,9 kg/m ²
Line design	13,9 kg/m ²
Other Line design	13,5 kg/m ²
Tilt line	15,6 kg/m ²
Curves	15,3 kg/m ²
Dots	15,3 kg/m ²
Tiles 4 + 4	14,2 kg/m ²
Other Tiles	13,9 kg/m ²
Puzzle	15,6 kg/m ²
Rhomb mini	15,7 kg/m ²
Rhomb hatch mini	15,6 kg/m ²
Rhomb	15,7 kg/m ²
Rhomb hatch	15,5 kg/m ²

HEAT

Lambda value W/m·K	0.076
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FIRE

Reaction to fire	B-s1,d0
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SUBSTANCES

Chloride %	≤0,06
Formaldehyde	E1*

INDOOR CLIMATE

Degassing	10 days
Particle release	Low

STANDARD

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