

Troldtekt® design

Data sheet

TROLDTEKT® DESIGN

Troldtekt acoustic panels are made of wood and cement. The product consists of wood (spruce), which is shredded into wood wool and mixed with cement.

Troldtekt design panels are surface-treated. Due to the nature of the material, colour variations will occur in natural wood and natural grey (FUTURECEM™) panels. To achieve an even distribution of the colour tones, we recommend mixing the panels during installation.

Factors affecting colour variations include the water/cement ratio, the water content of the wood, the drying rate, steam curing and curing humidity.

PRODUCT STANDARDS, LABELLING AND CERTIFICATION

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. Troldtekt products are CE-marked, and in addition to the marking we state:

Name of producer:
Troldtekt A/S

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

Product standard number:
EN 13168:2012+A1:2015 and
EN 13964:2014

Declaration:
See product data on page 2

Other approvals

Cradle to Cradle: Troldtekt is Cradle to Cradle-certified at Gold level. Troldtekt 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 Troldtekt acoustic panels is returned to the technical cycle and used as a resource in new cement at Aalborg Portland.



Indoor climate labelling: Troldtekt is indoor climate-labelled in the best degassing and particle release categories.



M1 classification: Troldtekt 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).



PEFC and FSC: Troldtekt is PEFC (PEFC/09-31-030) and FSC™ (FSC™ C115450)-certified, 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 Troldtekt acoustic panels to be FSC- or PEFC-certified.



Light reflection: Light reflection for different types of Troldtekt panels (measured by Teknologisk Institut, Denmark) can be found on Troldtekts webpage. Please scan the QR code.



USE AND MAINTENANCE

Troldtekt acoustic panels usually require no subsequent care. However, we recommend regular cleaning along with other surfaces – and otherwise as required. The panels are easy to clean

using a vacuum cleaner with a brush nozzle. If vacuum-cleaning is not sufficient, the panels can be wiped with a slightly damp cloth. If you want to paint the Troldtekt ceiling, use a hand sprayer.

Water-based paint does not reduce the sound-absorbing properties of the panels.

REUTILISATION

The entire range of Troldtekt's cement-bonded wood wool panels is Cradle to Cradle-certified at Gold level. Consequently, we have complete documentation of the substances in the products, and documentation that the products can

be composted and safely returned to the biological cycle as a soil conditioner. The cement in Troldtekt panels has a high lime content, which helps to neutralise the acids produced during composting. The wood in the Troldtekt

panels is organic material, and helps to prevent the compost from compacting, thereby enhancing oxygenation during the composting process. In this way, carbon and nutrients are recirculated in the biological cycle.

TOLERANCES

Troldekt consists of the natural material wood in combination with cement extracted from Danish mineral resources. The mix of these materials – wood wool and cement – inevitably results in

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

can affect the dimensions and weight of the panels. 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 13168:2012+A1:2015, which is the standard for cement-bonded wood wool and double-layer panels with cement-bonded wood wool, and EN 13964:2014, the standard for suspended ceilings.

Properties

DIMENSIONS (mm)

Product name	T	W	L
V-line 1way 6	25	600	1200
V-line 1way 10	25	600	1200
V-line 2way 6	25	600	1200
V-line 2way 10	25	600	1200
Line	35	600	1200
Line design 11	35	604	1194
Line design 11 4/6, 11 7/10, 11 3/9	35	604	1194
Tilt line	35	600	1200
Curves	35	600	1200
Dots	35	600	1200
Tiles 1 + 1	35	600	600
Tiles 1 + 2	35	600	600
Tiles 2 + 2	35	600	600
Tiles 2 + 4	35	600	600
Tiles 4 + 4	35	600	600
Puzzle	35	600	600
Rhombe mini	35	600	693
Rhombe hatch mini	35	600	693
Rhombe	35	600	1039
Rhombe hatch	35	600	1039
Tiles 5 T24	25	593	593
Tiles 5 T24	25	593	1193
Tiles 8 T24	25	593	593
Tiles 8 T24	25	593	1193

TOLERANCES

Length (mm)	> 1250 : ±2.0
	≤ 1250 : ±1.0
Width (mm)	±1.0
Thickness (mm)	Length > 1250 : ±2.0
	Length ≤ 1250 : ±1.0
Perpendicularity (mm/m)	± ≤ 2

FIRE

Reaction to fire In accordance with EN 13501-1:2018	B-s1,d0	A2-s1,d0
Fire protection ability In accordance with EN 13501-2:2023	K ₁ 10/K ₂ 10	
Cladding class	K ₁ 10/B-s1,d0	

WEIGHT (ultrafine structure)

Product name		
V-line 1way 10	10.7 kg/m ²	12.4 kg/m ²
V-line 1way 6	10.9 kg/m ²	12.6 kg/m ²
V-line 2way 10	10.7 kg/m ²	12.4 kg/m ²
V-line 2way 6	10.9 kg/m ²	12.6 kg/m ²
Line	14.7 kg/m ²	15.7 kg/m ²
Line design 11	14.7 kg/m ²	15.7 kg/m ²
Line design 11 4/6, 11 7/10, 11 3/9	15.1 kg/m ²	16.1 kg/m ²
Tilt line	15.8 kg/m ²	16.8 kg/m ²
Curves	15.7 kg/m ²	16.8 kg/m ²
Dots	15.8 kg/m ²	16.9 kg/m ²
Tiles 1 + 1	16.0 kg/m ²	17.1 kg/m ²
Tiles 1 + 2	15.9 kg/m ²	16.9 kg/m ²
Tiles 2 + 2	15.7 kg/m ²	16.8 kg/m ²
Tiles 2 + 4	15.4 kg/m ²	16.4 kg/m ²
Tiles 4 + 4	15.1 kg/m ²	16.1 kg/m ²
Puzzle	16.1 kg/m ²	17.2 kg/m ²
Rhombe mini	16.4 kg/m ²	17.5 kg/m ²
Rhombe hatch mini	16.3 kg/m ²	17.4 kg/m ²
Rhombe	16.3 kg/m ²	17.4 kg/m ²
Rhombe hatch	15.6 kg/m ²	16.7 kg/m ²
Tiles 5 T24, 25 x 593 x 593	9.8 kg/m ²	11.4 kg/m ²
Tiles 5 T24, 25 x 593 x 1193	10.0 kg/m ²	11.5 kg/m ²
Tiles 8 T24, 25 x 593 x 593	9.4 kg/m ²	10.8 kg/m ²
Tiles 8 T24, 25 x 593 x 1193	9.5 kg/m ²	11.0 kg/m ²

SUBSTANCES

In accordance with EN 13168:2012+A1:2015 and EN 13964:2014

Chloride	≤ 0.06
Formaldehyde	E1*

SUSPENSION

Declaration in accordance with EN 13168:2012+A1:2015 and EN 13964:2014

* No measurable formaldehyde emission



This document reflects Troldekt's knowledge of certifications, standards, and products at the time of publication.

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The most recent version can be found online by scanning the QR code.

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