

Troldekt® akustik

Data sheet

THE PRODUCT – TROLDEKT AKUSTIK

Troldekt akustik are cement-bonded wood wool panels made from wood and cement. The product is made of spruce shredded into wood wool and mixed with cement. Troldekt is also available based on PEFC-certified wood ensuring sustainable forestry. Troldekt can be surface-treated, but is often used unprocessed (natural wood and grey natural). Due to the nature of the ma-

terial, colour variations may occur. These colour variations are most evident in the grey panels, where the cement is 100% responsible for the grey Troldekt 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

MK approval

An MK approval is a fire classification of construction products and building elements certifying that the products can be legally used according to Danish regulations. All Troldekt products have MK approval and meet the classification requirements of DS 1065-1 for Class A materials and the classification requirements of DS 1065-2 for Class 1 cladding. The approval is based on the Troldekt screws and fittings used in connection with fire proofing. Therefore, the approvals are only valid when the products are used with original Troldekt screws and fittings or similar.

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

Name of the producer: Troldekt 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: Troldekt 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 Troldekt Acoustics have been tested and certified for use as ceiling and wall cladding in sports facilities in accordance with 'Prüfung der Ballwurfsicherheit, 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 Troldekt is classified as Class 1A.

International approvals:

ULC – Canada
Sitac – Sweden
Nemko – Norway
Komo – The Netherlands
Abz – Germany

Light reflection

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

Troldekt white 101 70.8%
Troldekt light natural 55.2%
Troldekt grey natural 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 long-haired paint roller or a hand sprayer. Water-based paint will not reduce the sound-absorbing performance of the panels.

DISPOSAL

It is important to sort Troldekt waste so that screws, nails and other materials are not mixed with the cement-bonded wood wool waste. It is also important to discard any residual attached mineral wool, roofing paper and similar. We recommend that you deposit mineral wool waste at a waste disposal site. Sorted Troldekt waste can be deposited at waste disposal sites for burning or composting. Troldekt waste is suitable

for composting processes because the high proportion of lime (CaO: approx. 34% by weight VS) assists in accelerating the composting process, and the fibre structure improves the quality of the compost. Troldekt waste can also be burned in incinerators at waste disposal sites and here the material contributes to combustion (net calorific value approx. 1,000 kcal/kg VS). For further information – see disposal guidelines at www.troldekt.dk.

TOLERANCES

It is important to note that Troldekt 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

Thickness (mm)	15/25/35/50
Width (mm)	600
Length (mm)	600/1200/2000/2400
Weight (kg/m ²)	6.0/9.7/12.0/15.0

TOLERANCES

Length (mm)	±1.5
Width (mm)	±1.0
Thickness (mm)	±1.5
% by weight	±10
Perpendicularity (mm)	± 2
Planeness (mm)	± 3

HEAT

Lambda value W/m.K	0.072
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FIRE

Reaction to fire	B/s1/d0
Cladding class	1
Material class	A

IMPACT RESISTANCE

Ball impact certification	1A
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SUBSTANCES

Chloride	≤0.35
Formaldehyde	E1

INDOOR CLIMATE

Degassing	10 days
Particle release	Low

STANDARD

Declared in accordance with	EN 13168 EN 13964
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