

Technical data

TROLDTEKT® FLOATING ACOUSTIC CLOUDS

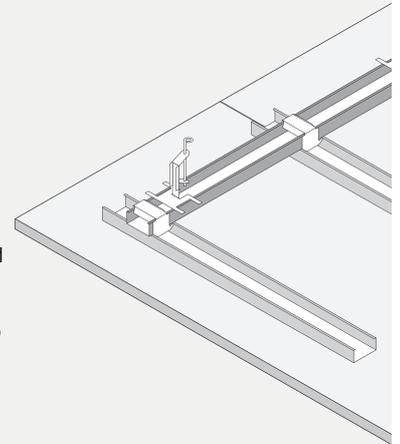
Troldekt floating acoustic clouds are suspended acoustic panels within a defined area. The clouds are the perfect choice for rooms where it is not possible or appropriate to install a suspended acoustic ceiling across the entire ceiling surface.

Floating acoustic clouds are an effective and flexible acoustic solution which can be dimensioned as desired. This allows a great deal of freedom with regard to the interior design and architectural look while achieving an impressive acoustic effect, because the suspended Troldekt clouds absorb sound on both sides of the panels.

Floating acoustic clouds are characterised by their simple and stylish design, with suspended C60 profiles on the back. As the profiles sit well away from the edges, only the ceiling surface and the thin edge of the Troldekt acoustic panels are visible.

Troldekt clouds are available in natural wood/natural grey or painted in our standard colours. Custom-painted clouds can also be supplied, painted in an RAL or NCS colour of your choice. All Troldekt cement-bonded wood wool products in natural wood/natural grey and standard colours are Cradle to Cradle-certified at Gold level.

The clouds are available with Troldekt acoustic panels in fire class B-s1,d0 or A2-s1,d0.



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

Name of producer:

Troldekt A/S

Certifications

0615-CPD-222958G

0615-CPD-804474G

Product standard number:

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.



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



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. 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%

OPERATION AND MAINTENANCE

Troldtekt 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 subsequently want to paint the Troldtekt ceiling, you can use a long-haired paint roller or a hand sprayer. Water-based paint does not reduce the sound-absorbing properties of the panels.

REUTILISATION

All Troldtekt clouds can be separated into cement-bonded wood wool and metal parts. Cement-bonded wood wool products can be composted and returned to nature 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

Troldtekt consists of the natural material wood, and cement extracted from Danish mineral resources. The mix of natural materials – wood wool and cement – inevitably results in slight 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 can affect the dimensions and weight of

the panels. Therefore, it is important to carefully follow the installation, storage and acclimatisation instructions.

PRODUCT DATA

The table below indicates the product data which we declare in accordance with EN 13964, which is the standard for suspended ceilings.

Brand

Clouds are made of panels in fire class:
Reaction to fire in accordance with EN 13501-1

B-s1,d0

A2-s1,d0

Dimensions

Panel thickness (mm)	25	35	25	35
Panel weight (kg/m²)				
Fine	10.6	13.9		
Ultrafine	11.4	15.2	13.2	17.6

Panel weight (kg/m²)

Standard

Declaration in accordance with EN 13964

Suspension

C60 profile system suspended from the ceiling by means of suspension brackets