Troldtekt® agro

Technical data

Troldtekt®
Acoustic Solutions since 1935
By Kingspan

THE PRODUCT – TROLDTEKT AGRO PANELS

Troldtekt agro panels 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 (PEFC/09-31-030)- or FSC® (FSC®C115450)-certified wood. Both certifications ensure that the wood comes from responsible forestry operations and other controlled sources.

There may be irregularities, cement specks, bark pieces and colour variations in the panel surfaces. These are only cosmetic in nature and have no impact on the strength, fire resistance or function of the panels.

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 13164 and EN 13168

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.

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.

USE AND MAINTENANCE

Troldtekt agro panels usually require no subsequent care. However, we recommend regular cleaning along with other surfaces – and otherwise as required.

Troldtekt agro panels are moisture-resistant and can also withstand light high-pressure cleaning.

REUTILISATION

The entire range of Troldtekt's cement-bonded wood wool panels is 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 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.

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TOLERANCES

It is important to note that Troldtekt consists of natural wood and cement from Danish mineral resources, and the very nature of the material composition will result in minor variations in the panels.

Panel dimensions remain within the stated tolerances 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 tolerances which we declare in accordance with EN 13168, which is the standard for cement-bonded wood wool.

Properties

DIMENSIONS	
Width (mm)	600
Length (mm)	2400
Thickness (mm)	25
Weight (kg/m²) - fine structure	10,1 Active

TOLERANCES	
Length (mm)	± 2.0
Width (mm)	± 1.0
Thickness (mm)	± 2.0
Perpendicularity (mm)	±≤ 2

FIRE	
Reaction to fire acc. to EN 13501-1	B-s1,d0
Fire resistance capability acc. to EN 13501-2	$K_1$10/$K_2$10
Cladding class	$K_1$10/B-s1,d0

SUBSTANCES	
Chloride %	≤0.06
Formaldehyde	E1*

STANDARD	
Declaration in accordance with	EN 13168

* No measurable formaldehyde emission

DIFFUSE AIR INTAKE

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