

# Troldtekt® baffles

## Technical data

### TROLDTEKT® BAFFLES

Troldtekt baffles are an effective and flexible acoustics solution that can supplement existing sound-absorbing surfaces on walls and ceilings while regulating the acoustics in rooms where it is not possible to install a suspended acoustic ceiling.

Using Troldtekt acoustic baffles, the acoustics can be adapted according to need, as the baffles are suspended individually from the ceiling structure. 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 Troldtekt baffles absorb sound on both sides of the panels. The design is simple and elegant, with a slim top rail that allows for multiple installation options.

Troldtekt baffles are available in natural wood/natural grey or painted in our standard colours. Custom-painted baffles can also be supplied, painted in an RAL or NCS colour of your choice.

All Troldtekt cement-bonded wood wool panels in natural wood/natural grey and standard colours are Cradle to Cradle Certified® at Gold level. Please note: The certification applies exclusively to the cement-bonded wood wool panel. Metal components used in the baffle assembly are not included in the Cradle to Cradle certification scope.

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



### PRODUCT STANDARDS, LABELLING AND CERTIFICATION

#### Other approvals

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.



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



## OPERATION AND MAINTENANCE

Troldekt 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 Troldekt 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 Troldekt baffles 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 Troldekt panels has a high lime content, which helps to neutralise the acids produced during composting. The wood in the Troldekt 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, 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 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

### Module and Dimensions

Module height (mm)	300/600
Total height (mm)	311/611
Length (mm)	600/1200
Thickness (mm)	30

Other dimensions available on request.

### Fire

Baffles are made of panels in fire class:  
Reaction to fire in accordance with EN 13501-1:2018

**B-s1,d0**      **A2-s1,d0**

### Weight ultrafine and fine (kg/pcs)

300x600	3.0	3.4
300x1200	6.0	6.8
600x600	5.6	6.4
600x1200	11.2	12.8

### Suspension

Steel wires and cable holder\*  
Aluminium top profile

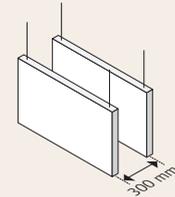
\* Baffles and accessories are not suitable for use in swimming pools or areas exposed to wind loads, strong air movements, ball impact, or mechanical stress.

ACCREDITED SOUND MEASUREMENTS

**30 x 600 x 1200 mm**  
Centre distance = 300 mm

Hz	125	250	500	1000	2000	4000
$\alpha_p$	0.30	0.35	0.50	0.65	0.75	0.90

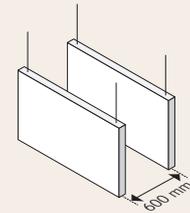
$\alpha_w = 0.55$  - NRC = 0.55 - Absorption class D



**30 x 600 x 1200 mm**  
Centre distance = 600 mm

Hz	125	250	500	1000	2000	4000
$\alpha_p$	0.20	0.25	0.35	0.45	0.50	0.65

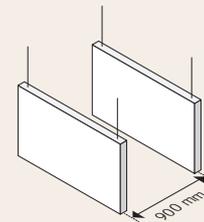
$\alpha_w = 0.45$  - NRC = 0.40 - Absorption class D



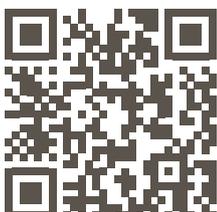
**30 x 600 x 1200 mm**  
Centre distance = 900 mm

Hz	125	250	500	1000	2000	4000
$\alpha_p$	0.10	0.15	0.25	0.35	0.35	0.50

$\alpha_w = 0.35$  - NRC = 0.25 - Absorption class D



Scan the QR code to download PDF document containing more sound absorption values



This document reflects Troldtekt'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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