

# GREEN OPTION

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## PRODUCT INFORMATION



BY VENØ



# GREENOPTION PANELS



BY VENØ is Danish design and acoustic panels in wood with several variants of slats for walls and ceilings in high quality.

Behind the BY VENØ brand is Fog & Venø A/S, which is responsible for all design and production. At Fog & Venø A/S, in addition to design, we also focus on the green transition in our choice of materials and handling of the product after use.

Fog & Venø produces panels in various sizes, both for private and professional actors in the construction industry.

To ensure the highest quality of our products, all panels are quality controlled during production and packing to avoid defects on acoustic panels before they are shipped to the customer.

With BY VENØ acoustic panels, you will achieve improved indoor climate and well-being in both private homes and workplaces.

Acoustic panels can attenuate and stop reverberation time in a room where several people are staying at the same time. With the right set-up, noise can be reduced by up to 50%.

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We have developed an acoustic wall panel, which consists of artificial grass from training facilities from virtually all professional football clubs around the world.

Our GreenOption wall acoustic panels are developed on a backboard made of 100% recycled artificial grass turf, which gives a unique and special design look; then, our slats in MDF are mounted with a real wood veneer on the front. This means that there may be shade differences in the expression of the veneer.

## Why choose BY VENØ?

- Good acoustics
- Danish design
- Danish quality product
- Healthy indoor environment that promotes well-being
- Easy and quick assembly

## How to create the ideal sound experience in a room.

The importance of acoustic control is underestimated in many buildings. Sound affects us in our daily lives. It can make the difference between a good and a bad day at school, work, the cinema, the theatre, etc.

## Reduce noise levels effectively with BY VENØ acoustic panels.

How do you create the ideal indoor climate, both in private homes and at work? Do you have challenges with hearing what others say when more people are in the room? The challenge with poor acoustics, is well known and a big challenge for many people!

## What is the cause of bad sound and what can we do to improve it?

Sound waves travel around the room, and each time the sound wave hits a hard surface, it is thrown back out into space, where its reverberation time becomes shorter and shorter over time. With more people, phones and small talk, there is constant reverberation in the room; this is where our acoustic panels make a big difference.

Our Danish-made acoustic panels break the sound and absorb the sound wave, so it dies out when it hits the panels. This means that the sound wave is eliminated and the reverberation time is shortened, which will improve the indoor climate and the feeling of well-being in the room, whether we are talking about private, commercial or public buildings.

These panels are made from FSC™ certified wood and veneer and other controlled materials.



## OUR MOST ENVIRONMENTALLY CONSCIOUS ACOUSTIC PANEL

This beautiful acoustic panel from BY VENØ has the same performance in acoustics, but is now available in a more sustainable material.

**- Now with a 65% recycled felt backing!**

BY VENØ produces FSC™-certified and environmentally conscious acoustic panels in Denmark - created in the finest craftsmanship quality, which improves acoustics in the room.

This panel contains more than just the classic scandinavian design - it also contains football stories from the nordic football clubs, as the recycled material is the artificial turf, from these football pitches, which is completely unique within this type of product on the market!



Oak (A)



Oiled Oak (A)



Am. Walnut (A)



Oiled Am. Walnut (A)



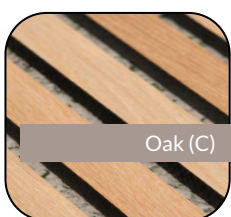
Conifer (A)



Olive (A)



Oak (B)



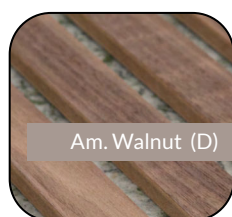
Oak (C)



Oak (D)



Am. Walnut (C)





















Am. Walnut (D)

- A: Black Core  
Black-Green Felt
- B: Brown Core  
Black-Green Felt
- C: Black Core  
Grey Felt
- D: Brown Core  
Grey Felt

# GreenOption Panels specifications



 Veneer	 Core	 Felt	 Dimensions	 m <sup>2</sup>	 Weight
Oak			20 x 600 x 2400 mm / 0.79 x 23.62 x 94.49 in.	1,44	8,7 kg
Oiled Oak			20 x 600 x 2400 mm / 0.79 x 23.62 x 94.49 in.	1,44	8,7 kg
American Walnut			20 x 600 x 2400 mm / 0.79 x 23.62 x 94.49 in.	1,44	8,7 kg
Oiled American Walnut			20 x 600 x 2400 mm / 0.79 x 23.62 x 94.49 in.	1,44	8,7 kg
Conifer			20 x 600 x 2400 mm / 0.79 x 23.62 x 94.49 in.	1,44	8,7 kg
Olive			20 x 600 x 2400 mm / 0.79 x 23.62 x 94.49 in.	1,44	8,7 kg

## Products that fit the panel:

- Screws 4.5 x 45 mm. black
- Glue: 290ml. mounting glue
- Finishing slats





# Q&A



## How large an area can I cover with acoustic panels?

As a starting point, we recommend that you cover approximately 20% of the wall area or about 30% of the floor area in the room to improve the room's sound quality significantly.

## Cleaning?

Our acoustic panels can be easily cleaned with a wrung damp cloth or with a vacuum cleaner.

## Mounting of panels

It's super easy to install our acoustic panels. Mounting can be done directly on the wall with glue or screws - or on 45mm laths.

When mounting with screws, we recommend 15 screws per panel (4.5x45mm) for a panel length of 240cm (18-21 pcs for 300/360cm)

See assembly drawing on page 6.

## Tolerances/Deviations from specified dimensions

Tolerances: +/- 3mm.

Angularity: length/width +/- 2mm.

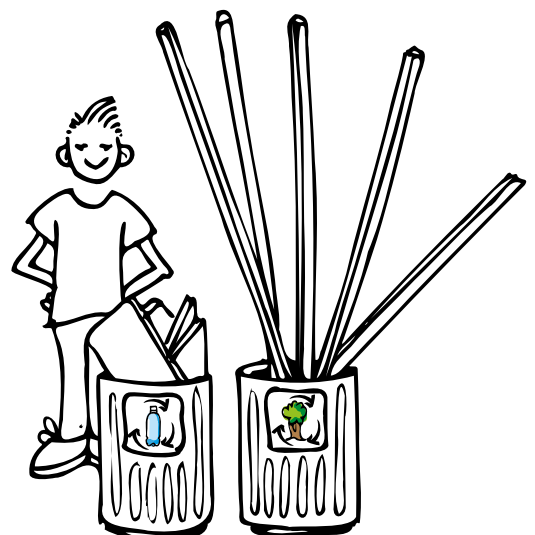
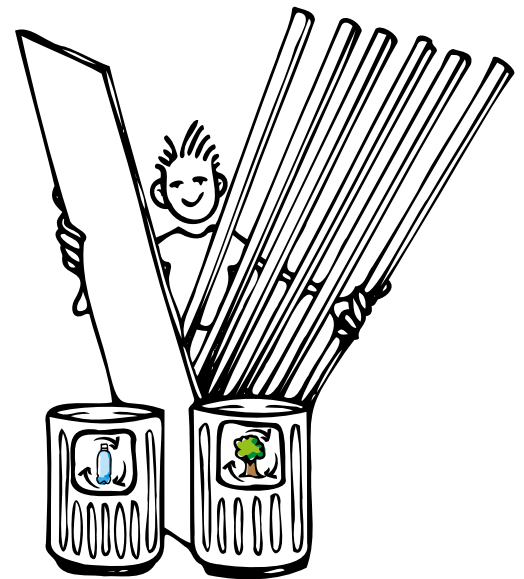
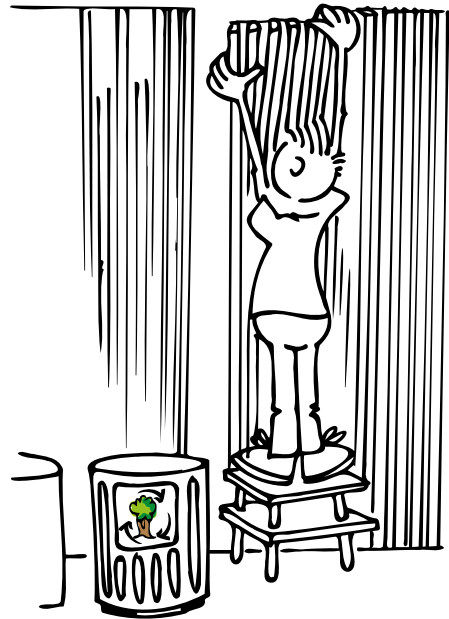
Weight +/- 10%

Our slats are either made of MDF or plywood, with real veneer glued to the front. This means that there may be shade differences in the expression of the veneer.

## Disposal/Recycling

Sustainability is an important part of our DNA. Therefore, we have focused on making the handling of our panels after use as simple as possible (see illustration to the right).

1. The felt (backing) is removed from the slats and disposed of as plastic waste, which can be recycled.
2. The slats are sorted as recycled wood, which can be recycled into new materials.



# Panel mounting



Figure 1:

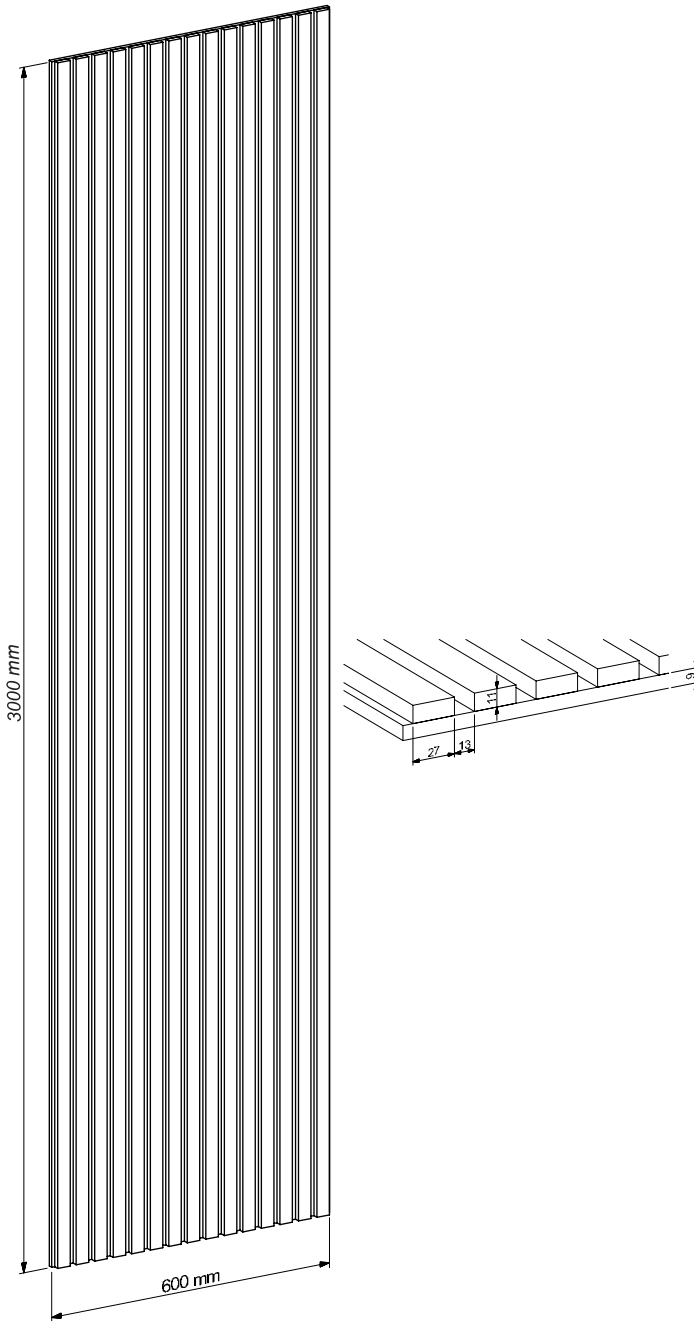
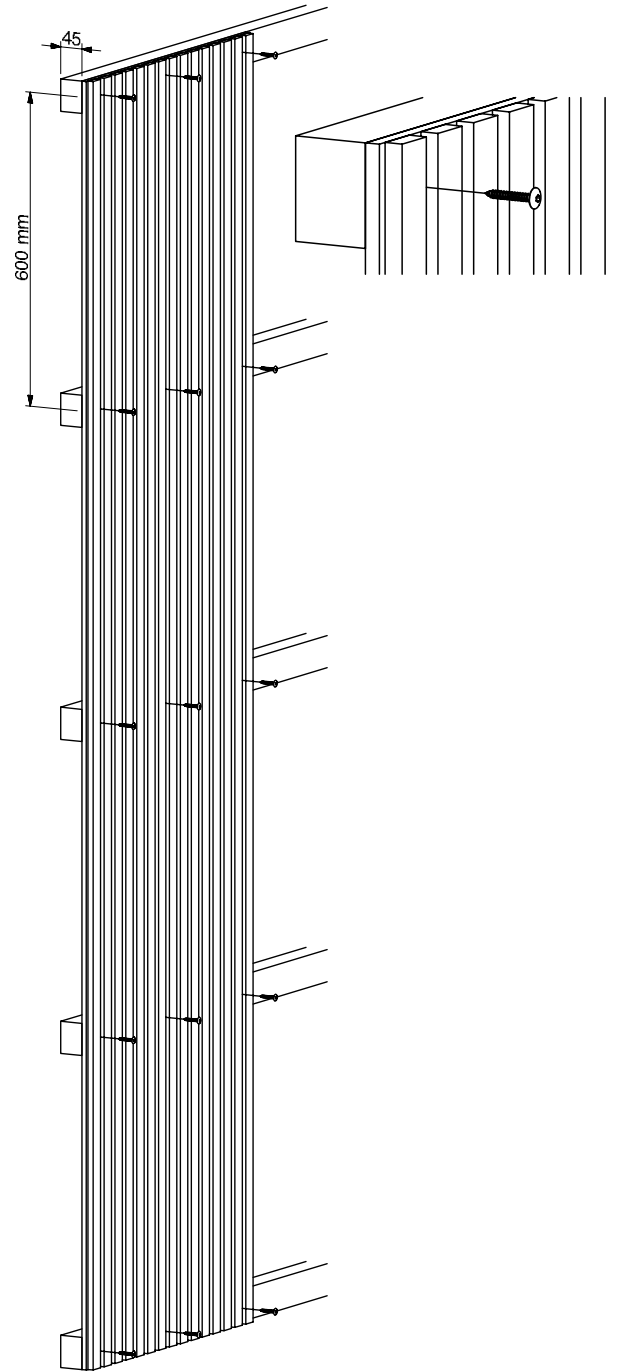


Figure 2:



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Milimeters	Inches
3000 mm	118.11 in
600 mm	23.62 in.
27 mm	1.06 in.
13 mm	0.51 in.
11 mm	0.43 in.
9 mm	0.35 in.

Milimeters	Inches
600 mm	23.62 in.
45 mm	1.77 in.



# Measurement of sound-absorption

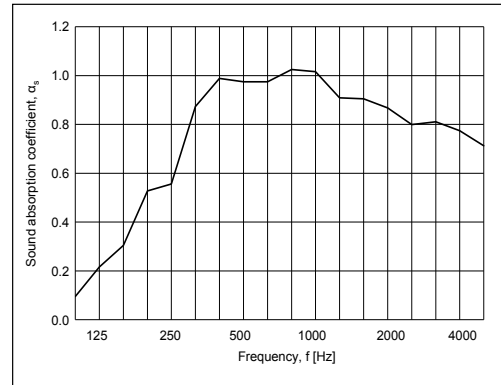
Measurement of sound absorption coefficient acc. DS/EN ISO 354:2003

**Figur 3:**

Mounting: Spacing 45mm behind panels.  
Closed frame around edges.

Test Area 10.8 m<sup>2</sup> Sab  
Room volume 215 m<sup>3</sup>  
Room surface area 305 m<sup>3</sup>.

Frequency [Hz]	$\alpha_s$
100	0.09
125	0.22
160	0.30
200	0.53
250	0.56
315	0.87
400	0.99
500	0.97
630	0.97
800	1.02
1k	1.02
1.25k	0.91
1.6k	0.90
2k	0.87
2.5k	0.80
3.15k	0.81
4k	0.77
5k	0.71

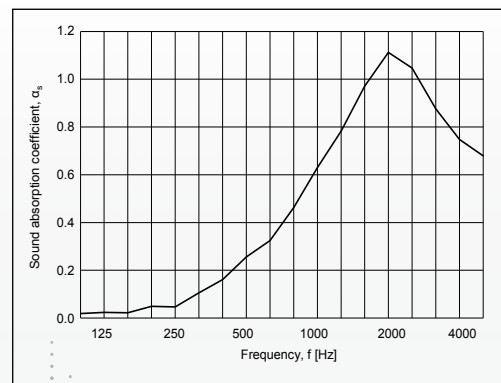


**Figur 4:**

Mounting: The 11 panels were laid out flat on the concrete floor in the reverberation test room.  
Closed frame around edges.

Test Area 10.8 m<sup>2</sup> Sab  
Room volume 215 m<sup>3</sup>  
Room surface area 305 m<sup>3</sup>.

Frequency [Hz]	$\alpha_s$
100	0.02
125	0.02
160	0.02
200	0.05
250	0.05
315	0.11
400	0.16
500	0.26
630	0.32
800	0.46
1k	0.63
1.25k	0.78
1.6k	0.97
2k	1.11
2.5k	1.05
3.15k	0.88
4k	0.75
5k	0.68

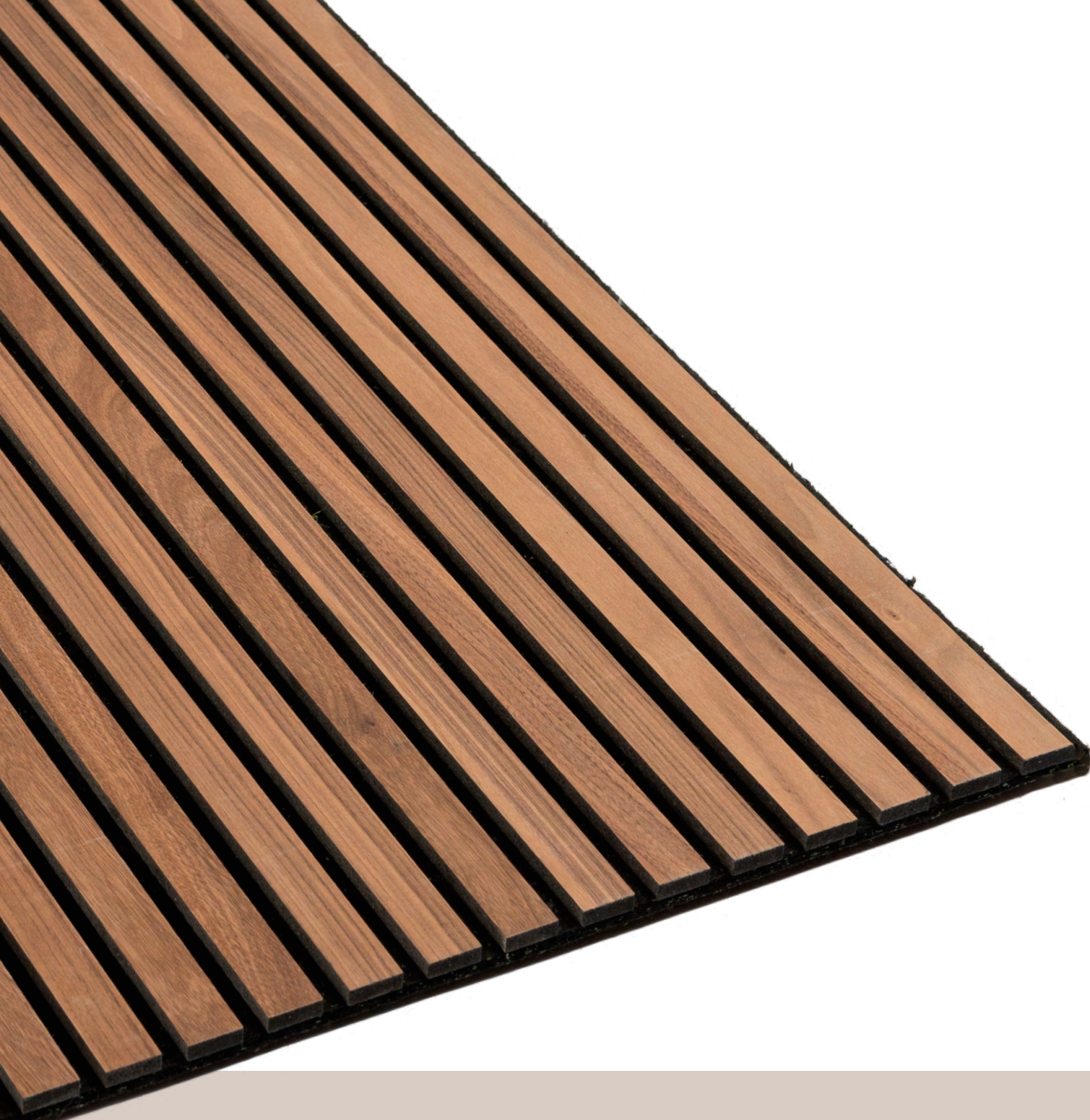


**Tests:**

Formaldehyde test: Danish Technological Institute  
Indoor climate test: Danish Technological Institute  
Sound Absorption test: Danish Technological Institute

B-S1-D0 (Applies only for polyester)





BY VENØ

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