# BY VENO BOUSTIC PANELS - stunning sound spaces

# INSPIRATION 2023



Our founders are ambitious, our colleagues are committed, our product is worthwhile!

#### HISTORY

FOG & VENØ A/S is a Danish family-owned company founded by Karl Frank Venø Nielsen and Ove Fog Jørgensen in 2019.

In late 2022, we built a brand new domicile in Aulum, Central Jutland. Here we have a large production of 6,700 m<sup>2</sup>.

We produce high-quality acoustic panels, made of sustainable materials with a focus on the environment, as well as sublime acoustic properties. Our panels give your home or workplace a Scandinavian touch in the form of a minimalist and modern design.

Our organisation operates under several sub-brands, including BY VENØ, which is by far FOG & VENØ's most prominent brand with the corresponding largest product range.

#### American Walnut

PERSONAL PROPERTY.

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#### FSC® FOREST STEWARDSHIP COUNCIL

Our wood panels are produced from FSC® certified wood, so we can guarantee that the product is produced under responsible and climate-conscious conditions that do not harm plant or animal life. As FSC forests do not harvest more timber than the forest can reproduce, we actively support sustainable forest management and, as a result, maintain a healthy balance in the world's forests.

The Forest Stewardship Council (FSC) is an international, non-profit certification scheme for sustainable timber and paper. FSC is a traceability certification where the wood can be traced back to the forest or controlled sources. The forest owner, sawmill and producer must all be certified, and retailers must have a trademark licence to market FSC products.

2 RESPONSIBLE CONSUMPTION AND PRODUCTION

At BY VENØ, we have a strong focus on minimising our production waste and doing our best to minimise our resources and carbon footprint. Therefore, as a rule, we always try to repair materials, including panels, that do not pass the quality control in our production. Our quality control ensures that we only deliver high quality products.

If a fault occurs in the manufacturing process, the panel is marked and sorted for manual repair in our repair department. 90-95% of all faults can be repaired and put back into production.

It also means that we never sell acoustic tiles that are of second-rate quality. We're proud of that, and likewise, we avoid using unnecessary resources in our production.



On average, over 820,000 tonnes of plastic are produced worldwide on a daily basis. Unfortunately, much of this plastic ends up in the environment, which is a disaster for the world's wildlife. Fortunately, a lot of plastic can be recycled many times.

Therefore, BY VENØ works with this global goal through a circular economy and upcycling of materials in our large production of acoustic panels. The back of the panels is a PET felt, which is a UV-stabilised, sound-absorbing, long-lasting material - made from at least 50% recycled plastic bottles.

15 LIFE ON LAND



BY VENØ is an FSC®-certified brand where our wood panels are produced from FSC®-certified wood. Through our certification, we can guarantee that the products are produced under responsible and climateconscious conditions. The FSC® organisation works to ensure that timber production is neither harmful to plants nor wildlife since more timber is not felled in FSC® forests than what the forest can reproduce.

Through FSC® certification, we support sustainable forest management efforts and, thereby, the maintenance of a healthy balance between the world's forests and life on land.



Scan to read more about our work within sustainability.

# GREEN PRODUCT DEVELOPMENT

#### The Turf Story - the environment

Our felt backgrounds are made from 50% recycled plastic and therefore meet our desire to reduce the use of plastic. However, our development team has taken another step in the sustainable direction - working with a local company that specialises in upcycling worn artificial turf football pitches.

The pitches have a lifetime of 10 years, after which they must be disposed of - this process typically emits 300 tonnes of  $CO_2$ .

However, by using super environmentally friendly technology, we can separate the pitches into their basic fragments and use the grass fibres to develop new felt backgrounds. Based on this, we can now proudly present a felt that consists of 65% recycled plastic.

Our TURF felt is part of our other felt range and can be combined with our various panels.

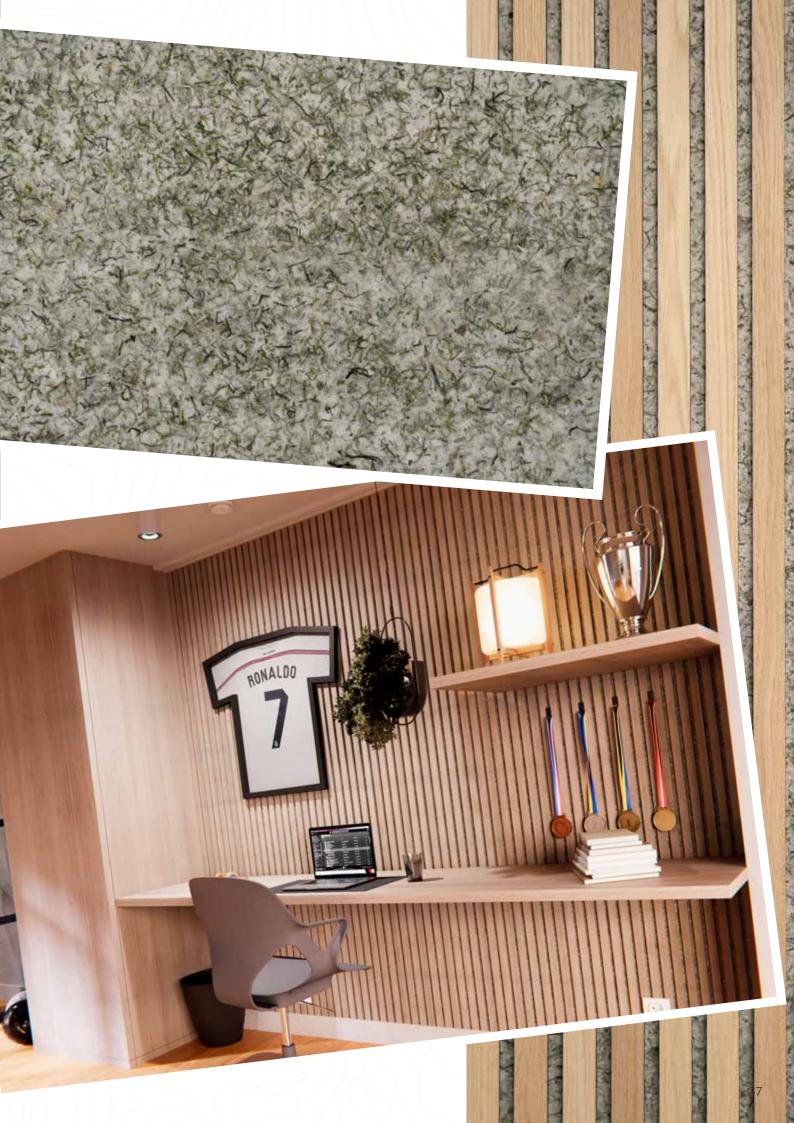
The unique feature of our Upcycled Turf panel is our felt on the back, which is made from 100% recycled artificial grass that is cut into small pieces and then mixed into a felt that gives a beautiful and unique look. Then our MDF slats are fitted with a real wood veneer on the front. This means that there may be differences in the expression of the veneer.

#### The Turf Story - the dream

We think all our acoustic panels have a great story - but no doubt - our TURF panels are a winner. Here we give the user the opportunity to have a piece of football history on their wall. So even after the last kick and last sliding tackle - the dream can live on in the form of our acoustic panels.

Regardless of your talent on the pitch, Upycled TURF panels allow you to get up close - while giving the environment a helping hand.









PET felt is a UV-stabilised, sound-absorbing, long-lasting material made from recycled material, consisting of at least 50% recycled plastic bottles.

PET felt is both a recycled material, but can also be recycled again as plastic.



With our Textile Felt and Turf Felt, you get a product that has a unique look but also goes even further in the direction of being more sustainable products.

Poor acoustics in a room can affect your health in terms of stress and poor concentration. Our acoustic panels allow you to improve poor acoustics and reduce reverberation without compromising your interior's quality or aesthetics.

**Facts:** Our felt plays an important role in the soundabsorbing properties of acoustic panels. Together with the structure of the slats, much of the sound normally reflected back into the room will be absorbed, creating a more comfortable indoor environment.





All BY VENØ acoustic panels are much more than just a visual product. You get a product that makes the room's acoustics and level of reverberation significantly better!

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.



#### Wooden Panels specifications

Veneer	Core	Felt	Dimensions	<u>m²</u> m²	∩ Weight
			20 x 600 x 2400 n	nm 1,44	9,7 kg
			20 x 600 x 2700 n	nm 1,62	10,9 kg
			20 x 600 x 3000 r	nm 1,8	12,1 kg
American Walnut	/∎/		20 x 600 x 3600 r	nm 2,16	14,6 kg
			20 x 600 x 2400 n	nm 1,44	9,7 kg
			20 x 600 x 2700 n		10,9 kg
			20 x 600 x 3000 r		12,1 kg
Ash			20 x 600 x 3600 r	nm 2,16	14,6 kg
1/1/0			20 x 600 x 2400 n	nm 1,44	9,7 kg
Beech			20 x 600 x 3000 r	nm 1,8	12,1 kg
			20 x 600 x 2400 n	nm 1,44	9,7 kg
Grey Rustic Oak			20 x 600 x 3000 r	nm 1,8	12,1 kg
/ 10 / 1			20 x 600 x 2400 n	nm 1,44	9,7 kg
Mahogany			20 x 600 x 3000 r	nm 1,8	12,1 kg
ALS I			20 x 600 x 2400 n	nm 1,44	9,7 kg
			20 x 600 x 2700 n		10,9 kg
			20 x 600 x 3000 r		12,1 kg
Dak			20 x 600 x 3600 r	nm 2,16	14,6 kg
$\gamma/\gamma$			20 x 600 x 2400 n		9,7 kg
Rustic Oak			20 x 600 x 3000 r	nm 1,8	12,1 kg
			20 x 600 x 2400 n	nm 1,44	9,7 kg
			20 x 600 x 2700 n	111111	10,9 kg
Smoked Oak			20 x 600 x 3000 r	nm 1,8	12,1 kg





If you want a final finish on your acoustic panel wall, you can install the BY VENØ finishing slats, which hide the slat core and give a more exclusive look.

If you do not use a finishing slats, you will see the "core" of the slat, whereas if you fit a finishing slat, you will see the selected wood type instead.

See picture for illustration.





With our unfinished acoustic panel, you have a canvas of possibilities.

You can influence the expression of the MDF panel with either a Natural Oil from BY VENØ or a paint, depending on the desired colour.

If, on the other hand, you want a panel with a more raw expression, this is achieved by not applying oil or paint. In that case, it will appear with an anthracitegrey tone and adorn the room with a more raw look that enhances its acoustics.

# Black

#### **Raw Panels specifications**



Our RAW panels can be used right out of the box. RAW is also perfect if you want to unleash your inner artist.





#### Oil

Most of our wood panels and finishing strips are untreated, allowing you to choose whether the panels should be oil-treated or appear in their raw yet elegant expression.

Our oils are available in five different colours, so you can choose the oil that best suits the visual look you want the panel to match in the room. Our oils are indoor climate labelled, which ensures that the products contribute to a good and healthy indoor climate.

- Optimal protection against dirt and water
- Natural and glossy surface on the wood
- Highlights the grain structure of the wood
- Can be used on all types of wood, including our raw MDF acoustic panels.



Scan to see more information about the care treatment

#### **Oil specifications**

Oil	Quantity
White oil	500 ml
Natural oil	500 ml
Antique oil	500 ml
Grey oil	500 ml
Black oil	500 ml















The LUX panel is a Danish design, made of 40 millimetre wide slats. What makes this acoustic panel unique is that this panel has wood veneers on all three sides, which gives the panel a more exclusive look. This is a unique technique that requires an exceptionally high level of product knowledge, and it's something we're very proud to present to you!

The wide slats create a calm and pleasant environment in your home or workplace. Shade differences may occur, as wood is a natural material. The slats are lacquered, which not only gives them an exclusive look but also makes them easier to clean.



#### LUX Panels specifications

				m²	
Veneer	Core	Felt	Dimensions	m <sup>2</sup>	Weight
LUX Lacquered (white) Oak	X		20 x 600 x 2400 mm	1,44	11.2 kg
LUX Lacquered (natural) Oak	X		20 x 600 x 2400 mm	1,44	11.2 kg
LUX Lacquered (natural) American Walnut	X		20 x 600 x 2400 mm	1,44	11.2 kg
LUX Lacquered (natural) Smoked Oak	X		20 x 600 x 2400 mm	1,44	11.2 kg
LUX Lacquered (natural) Ash	X		20 x 600 x 2400 mm	1,44	11.2 kg

Olive

Olive

Salsa

By choosing one of our exclusive acoustic panels in linoleum, you get a wider spectrum of colours to either match or mix the style and colours of the room,

as well as the décor.

Linoleum also provides a surface on the panel that can be easily maintained with a wet cloth. Especially if these are installed in a kitchen or hallway environment where people or children touch the surface.

With a linoleum acoustic panel, the only limit is your imagination!

Mushroom

Ash

Vapour

Spring Green

Pewter

Nero

Mauve

Orange Blas

#### Linoleum Panels specifications

Surface	Core	Felt		Dimensions	m <sup>2</sup>	<ul> <li>☐</li> <li>Weight</li> </ul>
Linoleum Nero				20 x 600 x 2400 mm	1,44	10,7 kg
Linoleum Ash				20 x 600 x 2400 mm	1,44	10,7 kg
Linoleum Burgundy				20 x 600 x 2400 mm	1,44	10,7 kg
Linoleum Pewter				20 x 600 x 2400 mm	1,44	10,7 kg
Linoleum Pearl				20 x 600 x 2400 mm	1,44	10,7 kg
Linoleum Salsa				20 x 600 x 2400 mm	1,44	10,7 kg
inoleum Mauve				20 x 600 x 2400 mm	1,44	10,7 kg
_inoleum Conifer				20 x 600 x 2400 mm	1,44	10,7 kg
_inoleum Pebble				20 x 600 x 2400 mm	1,44	10,7 kg
inoleum Mushroom				20 x 600 x 2400 mm	1,44	10,7 kg
inoleum Vapour				20 x 600 x 2400 mm	1,44	10,7 kg
inoleum Iron				20 x 600 x 2400 mm	1,44	10,7 kg
inoleum Smokey Blue				20 x 600 x 2400 mm	1,44	10,7 kg
inoleum Aquavert				20 x 600 x 2400 mm	1,44	10,7 kg
inoleum Midnight Blue				20 x 600 x 2400 mm	1,44	10,7 kg
inoleum Spring Green				20 x 600 x 2400 mm	1,44	10,7 kg
inoleum Pistachio				20 x 600 x 2400 mm	1,44	10,7 kg
inoleum Olive				20 x 600 x 2400 mm	1,44	10,7 kg
inoleum Powder				20 x 600 x 2400 mm	1,44	10,7 kg
inoleum Orange Blast				20 x 600 x 2400 mm	1,44	10,7 kg
Linoleum Nero				20 x 600 x 3000 mm	1,8	13,4 kg
_inoleum Ash				20 x 600 x 3000 mm	1,8	13,4 kg
inoleum Burgundy				20 x 600 x 3000 mm	1,8	13,4 kg
inoleum Pewter			10	20 x 600 x 3000 mm	1,8	13,4 kg
inoleum Pearl				20 x 600 x 3000 mm	1,8	13,4 kg
_inoleum Salsa				20 x 600 x 3000 mm	1,8	13,4 kg
inoleum Mauve				20 x 600 x 3000 mm	1,8	13,4 kg
inoleum Conifer		100 - 20 100 - 20 100 - 20		20 x 600 x 3000 mm	1,8	13,4 kg
inoleum Pebble				20 x 600 x 3000 mm	1,8	13,4 kg
inoleum Mushroom				20 x 600 x 3000 mm	1,8	13,4 kg
_inoleum Vapour				20 x 600 x 3000 mm	1,8	13,4 kg
_inoleum Iron				20 x 600 x 3000 mm	1,8	13,4 kg
inoleum Smokey Blue				20 x 600 x 3000 mm	1,8	13,4 kg
inoleum Aquavert			27	20 x 600 x 3000 mm	1,8	13,4 kg
inoleum Midnight Blue				20 x 600 x 3000 mm	1,8	13,4 kg
inoleum Spring Green				20 x 600 x 3000 mm	1,8	13,4 kg
inoleum Pistachio			2	20 x 600 x 3000 mm	1,8	13,4 kg
_inoleum Olive				20 x 600 x 3000 mm	1,8	13,4 kg
_inoleum Powder				20 x 600 x 3000 mm	1,8	13,4 kg
Linoleum Orange Blast				20 x 600 x 3000 mm	1,8	13,4 kg



#### Laminate Panels specifications

			hudoud	m <sup>2</sup>	ĉ
Veneer	Core	Felt	Dimensions	m <sup>2</sup>	Weight
Laminate Concrete Grey			20 x 600 x 2400 mm	1,44	9.8 kg
Laminate Concrete Grey			20 x 600 x 3000 mm	1,8	12.3 kg



Our laminate panel is designed to have a raw concrete look. It gives a realistic look of real concrete and raw materials with many lovely details and colours in the structure.

Laminate is a highly forgiving material as it requires minimal care and maintenance. We only use highquality laminate, where you can't see fingerprints and other dirt.

This panel is for those who want a raw look, which, for example, a stone panel has, but in a more economical range and more maintenance-friendly.



### FIRE-APPROVED B-s1,d0 ACOUSTIC PANEL

Panels as interiors for walls and ceilings have become extremely popular. It is now also possible to supply fire-rated acoustic panels meeting the current requirements for use as materials in public and private buildings and the project market.

With our new B-s1,d0 approved panels, we follow the prevailing requirements for both design and safety. That's why we are proud to supply public buildings such as hotels, theatres, schools, etc. - buildings where the need for acoustic solutions often exceeds what is expected in private homes.

BY VENØ's fire retardant panel is a fire-rated B-s1,d0 acoustic panel approved for use in public and private buildings where fire requirements apply to the materials.

Current building standards set a number of fire classification requirements for the cladding of wall and ceiling structures (depending on the degree of cladding). For public buildings, a panel is required that is fire approved in its complete construction

As an architect, contractor, developer and ultimately the general public, you are guaranteed that BY VENØ's fire-approved acoustic panels meet the requirements of the fire authorities in terms of flame spread, smoke development and fallout.

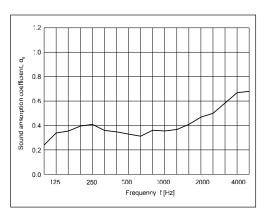


#### Strong acoustic properties

Sound test, installed with 45mm air behind the panel. Closed frame around the edge.

Test area 10,8 m<sup>2</sup> Room volume 215 m<sup>3</sup> Room surface area 305 m<sup>2</sup>.

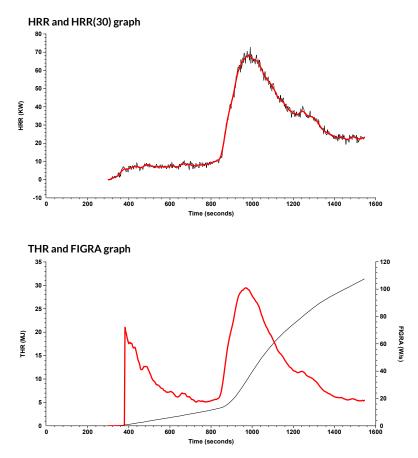
Frequency [Hz]	a <sub>s</sub>
100	0.24
125	0.34
160	0.35
200	0.39
250	0.41
315	0.36
400	0.35
500	0.33
630	0.31
800	0.36
1k	0.36
1.25k	0.37
1.6k	0.41
2k	0.47
2.5k	0.50
3.15k	0.58
4k	0.67
5k	0.68

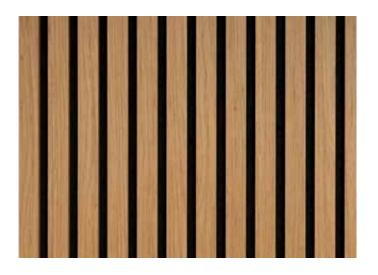


#### A safe panel for your project

BY VENØ's fire approved panel is classified as a B-s1,d0 product. The graph below shows that the product fully meets the requirements - and has potential classification as an A2/B-s1,d0.

Potential classification	
Class	A2/B
Smoke production	s1
Flaming droplets/particles	dO





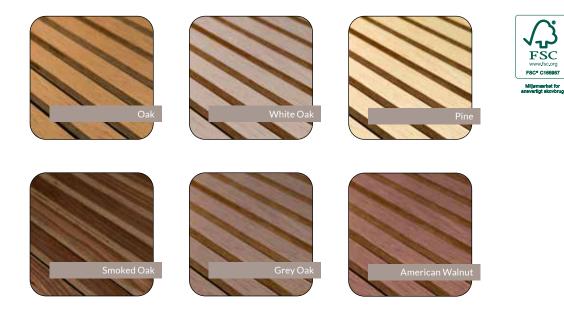
#### Easy installation

You can mount the panel directly on the wall or ceiling for general acoustic dampening, but if you want to optimise the acoustic effect further, you can mount the panel on a built-up frame of wood, e.g. 45x45mm with 45mm insulation; this will increase the acoustic effect significantly.

If the panel is adapted during installation, fire-retardant varnish must be applied to adapted surfaces!

#### Fire Retardant Panels Specifications

			<u>111</u>	m <sup>2</sup>	Ê
Veneer	Core	Fibreboard	Dimensions	m²	Weight
Oak			21 x 600 x 2400 mm	1,44	16.5 kg
White Oak			21 x 600 x 2400 mm	1,44	16.5 kg
Smoked Oak			21 x 600 x 2400 mm	1,44	16.5 kg
Grey Oak			21 x 600 x 2400 mm	1,44	16.5 kg
Pine			21 x 600 x 2400 mm	1,44	16.5 kg
American Walnut			21 x 600 x 2400 mm	1,44	16.5 kg











Achieve an exclusive expression with acoustic panels covered with stone slate from the Himalayas! Stone is a natural material and rather unique, as the structure is created by nature itself, and they can vary as a result.

For our range of stone-faced acoustic panels, we have used a unique technique that allows the thin stone veneer to be applied to the slats.

These panels are recommended to be installed in sets as the structure can only match up to two panels, after that the structure will be different.

The result is a perfect combination of aesthetics and design with a twist of steep mountain sides and natural colour play that is guaranteed to look impressive and unique while adding a bit of Himalayan history.



Our Stone panels are manufactured in sets of two, so the structure runs across 2 panels

				m <sup>2</sup>	ĉ
Veneer	Core	Felt	Dimensions	m²	Weight
Indian Autumn			20 x 600 x 2400 mm	1,44	11.5 kg
Tan			20 x 600 x 2400 mm	1,44	11.5 kg
Rustic			20 x 600 x 2400 mm	1,44	11.5 kg

#### Stone Panels specifications





With these acoustic panels you get clean lines with a Nordic design!

Our foiled acoustic panels are available in many different colours and variants. The unique feature of this panel is that the foil is wrapped around the slats, making them appear solid and simple. By choosing foiled slats on acoustic panels, you can match colour codes as you wish, and since these are foil, they will not vary in colours and shades as wooden types may as wood is a natural material.

These panels require no finishing strips, can be easily wiped with a slightly damp cloth and are also completely maintenance-free.

#### Foiled Panels specifications

				<b>m</b> <sup>2</sup>	Ê
Surface	Core	Felt	Dimensions	m²	Weight
Arctic Grey	X		20 x 600 x 2400 mm	1,44	9.4 kg
Black	X		20 x 600 x 2400 mm	1,44	9.4 kg
Indigo Blue	X		20 x 600 x 2400 mm	1,44	9.4 kg
Sand Grey	X		20 x 600 x 2400 mm	1,44	9.4 kg
Light Oak	X		20 x 600 x 2400 mm	1,44	9.4 kg
Grey Oak	X		20 x 600 x 2400 mm	1,44	9.4 kg
Brown Oak	X		20 x 600 x 2400 mm	1,44	9.4 kg
Dark Oak	X		20 x 600 x 2400 mm	1,44	9.4 kg
Walnut	X		20 x 600 x 2400 mm	1,44	9.4 kg
White	X		20 x 600 x 2400 mm	1,44	9.4 kg





BY VENØ's product category, Design Panels, consists of the iconic wood veneer panel.

With the Design series, you have the option to create both the traditional panel look as well as more creative design elements.

The panels are in one piece, without felt backing, and therefore do not have the same sound absorption as our traditional acoustic panels. However, these products still have the visual beauty of the slat design - and are perfect for decorating both small and large areas.

This category consists of panels in standard sizes, as well as Hexagons and Rhombuses (see next page).

#### **Design Panels specifications**

		Internet	m²	ĉ
Veneer	Core	Dimensions	m²	Weight
Oak		10 x 600 x 2400 mm	1,44	7.5 kg
American Walnut	$\mathcal{A} = \mathcal{A}$	10 x 600 x 2400 mm	1,44	7.5 kg
Smoked Oak		10 x 600 x 2400 mm	1,44	7.5 kg

#### HEXAGONS

#### Hexagon Design Panels specifications

		Dimensions	△ Weight	
Surface	Core			
Oak		9 x Ø265 mm	0,32 kg	
American Walnut		9 x Ø265 mm	0,32 kg	
Smoked Oak		9 x Ø265 mm	0,32 kg	
7				-





#### RHOMBUS

#### Rhombus Design Panels specificationsr

	المشارية	<u></u>	
Surface	Core	Dimensions	Weight
Oak		9 x 266 x 307 mm	0,46 kg
American Walnut		9 x 266 x 307 mm	0,46 kg
Smoked Oak		9 x 266 x 307 mm	0,46 kg

Both BY VENØ's Hexagons and Rhombuses are designed to be used in beautiful combinations that give your wall a unique look!





# Vertical mounting + </tab



**3D Hooks** For vertical mounting. Does not require "Vertical Mount". Available in Black / Red / White

#### Horizontal mounting



Mounting screws





## SIMPLE INSTALLATION

We produce acoustic panels in ready-made modules, which make them easy to handle when you install them on walls or ceilings.

The simple installation makes BY VENØ a perfect project for DIYers while saving you, the professional, a lot of time on installation.



Scan the QR code or visit our website www.byveno.com to learn more about installation and maintenance

## **Quick Installation Guide**

600 mm

#### Directly on a wall

#### Construction adhesive:

Apply the glue to the panel and set it against the wall. Make sure to press it firmly.

#### Screws:

Screw the panel through the felt and into the wall. We recommend using 15 screws per panel as illustrated in the drawing to the left. Remember to use wall plugs if your wall type requires it.

#### On a shell

For optimal sound absorption, set up a formwork with 45 mm studs on your wall. We recommend a distance of 600 mm between your studs. Insert mineral wool between the studs. Screw the panel onto the formwork through the felt.

#### **Cutting panels**

If you need to adjust your panels in length or width, you can easily cut them to size. When adjusting the length of the panel, we recommend a sharp saw (for example a plunge saw) to cut through both slats and felt.

## OUR JOURNEY

We aim to ensure a sustainable growth path and make decisions based on long-term rather than short-term economic, environmental and social impacts.

We recognise our role in contributing to a better world and know that our sustainability journey is just beginning.

# www.byveno.com



FOG & VENØ A/S Buntmagervej 5 DK-7490 Aulum (+45) 8877 8370 CVR/VAT: 33 88 04 64