

# DECIBEL

by JOHANSON



Silence through design

Every day we are surrounded by all sorts of sounds, from whirring fans, chatting colleagues and ringing phones to the background noise of a radio. Unwanted noise can have a negative effect on people, disrupting concentration and increasing stress levels. Decibel by Johanson specialises in creating a better environment for everyone to work and live in.

We develop sound absorbers and acoustic diffuser panels that really do make a difference. Our products are the result of many years' experience of design and close collaboration with acoustic engineers, backed up by systematic acoustic analyses and tests conducted in accordance with approved standards.

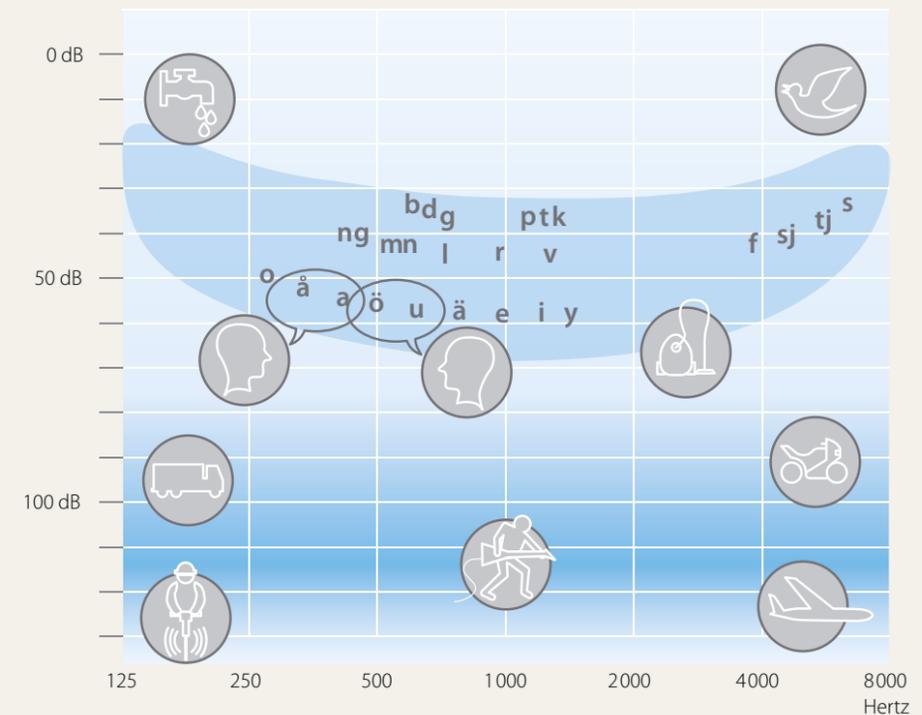
Of the five senses that humans have evolved – smell, hearing, taste, touch and sight – three are particularly important for survival. These are smell, hearing and sight. At Decibel we have chosen to focus our work on hearing and on issues that are key to understanding how sound is transmitted, perceived and absorbed.

Human hearing developed primarily to alert us to dangers and to localise the source of a noise so that we could determine the best escape route. Today the situation is very different. We live in an information society where it is absolutely essential to be able to hear what is being said in order to acquire and systematise information.

To mitigate distracting noise Decibel by Johanson has developed sound absorbers that make it easier to concentrate on the task in hand. We believe that emulating natural features of the outdoor environment and recreating them in indoor spaces is a relevant way to recognise the value of all our senses – eye, ear and soul.



# THE SCIENCE AND UNDERSTANDING OF SOUND



*The human ear can detect frequencies between 20 and 20,000 Hertz (Hz). The voice frequency, however, is approximately 125-8,000 Hz. Vowels such as A, E, O, I and U are pronounced loudest, so these vowels belong to a low frequency band. Voiced consonants such as M, R, V and B are in the medium frequency range, while the unvoiced consonants F, P, S and T are in the high frequency band, with F, T and S being particularly difficult to discern.*

Sound is energy. Sound needs air in order to travel from point A to point B. It also needs a 'trigger' that causes an object to vibrate, such as a hammer striking a nail or a finger plucking a guitar string.

A third component in the transmission of sound is our ear and its ability to detect the sounds we hear. Different sounds are the result of contrasts in energy and variations in wavelengths. A bass sound has more energy and longer wavelengths. That's why, during a concert, we may experience pressure on our chest from the vibration of not

the bass: this is because the air is, literally, being pressed against our body. The fact that the high energy content of a bass note can travel a long way may sometimes be perceived as disturbing. High-pitched sounds, however, have less energy and shorter wavelengths, so their energy dissipates quickly. Imagine, for example, the scenario of overhearing a conversation in the office next door. It is difficult to determine what is being said, because higher-pitched sounds are less able to penetrate the wall than those with a low pitch. The effect can be even more disturbing if one of those talking has a deep (bass) voice: it's

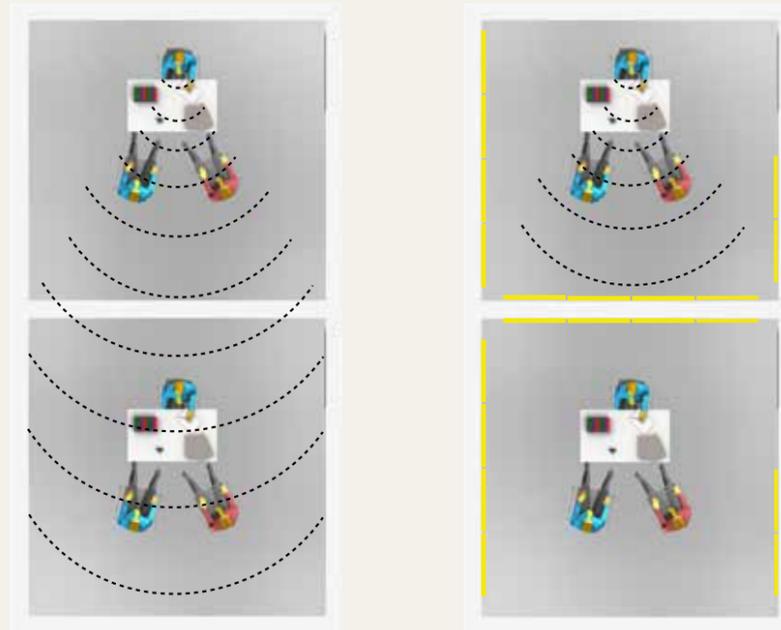
possible to distinguish any consonants, so all that we hear is a low 'rumbling'.

All of us have our own inbuilt hearing threshold, which is affected in different ways. Loud noises (in excess of 120 dB) can cause discomfort and pain – and our ears are less forgiving than our eyes. If our eyes are exposed to very bright light, we can squint or blink, and the consequence may be no more than a temporary halo in our field of vision. Loud noises, however, can seriously damage our hearing, causing tinnitus or leading to other permanent hearing impairments.

For most of us, poor light is preferable to an uncomfortable noise level.

Hearing also deteriorates with age. It is quite common for our hearing acuity to diminish with increasing rapidity as we grow older, making it hard for us to distinguish between words such as 'sound', 'found' and 'round'. Instead we either have to use context and the speaker's lip movements, or increase the volume in some way in order to interpret what is being said.

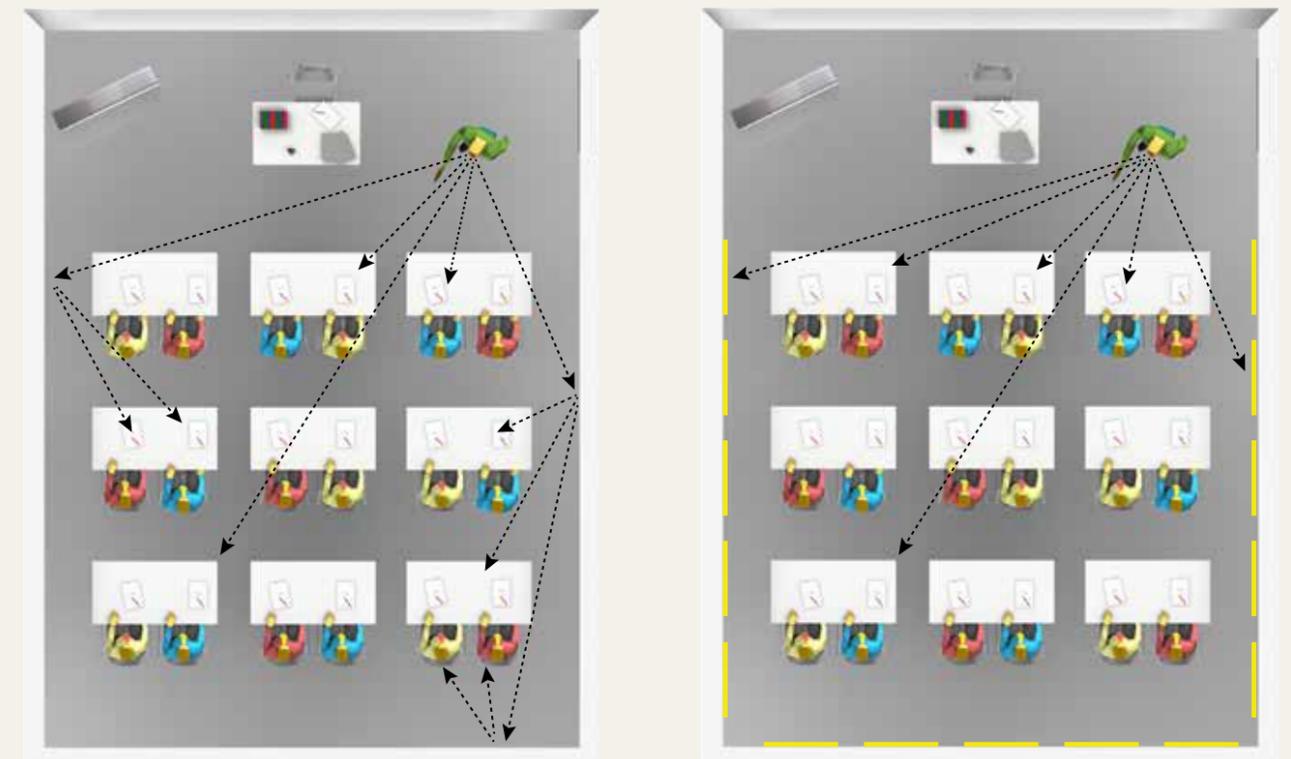
# THE FUNCTION OF SOUND ABSORBERS IN DIFFERENT ENVIRONMENTS



## OFFICES

In a room without sound absorbers there is always a certain amount of unwanted background noise and half-heard conversations that are perceived as disturbing.

Solution: We install sound absorbers on both side-walls in order to reduce the overall noise level. We also fit sound absorbers on one non-parallel surface to improve the acoustic environment even further by making it easier for workers to concentrate and to distinguish what is being said to them.



## CLASSROOMS

In a classroom there is usually just one main source of sound (the teacher's voice). This can pose a serious problem, because while pupils on the front row hear only direct sound, those further back in the room also have to cope with reflected sounds that bounce off the walls and ceiling.

Solution: The illustrations above show how energy in the sound waves transmitted by the teacher is absorbed by the panels and captured within the absorbent material instead of being reflected. As all those in the room now hear only direct sound, this increases speech clarity and understanding.

## UNIQUE COLLABORATION

The Ecophon Inside™ symbol guarantees that a product bearing this mark has been developed in conjunction with Ecophon. The sound-absorbent materials are designed and manufactured to satisfy criteria for optimum technical performance and a visually appealing form. Both core and surface materials have been specially chosen to meet the most stringent quality standards.

Our carefully engineered designs and approved eco-friendly materials provide an effective answer to the challenges of today's noisy world. All our products have been painstakingly tested by accredited laboratories in accordance with the latest standards for the relevant market. Production processes for the various components are environmentally certified according to ISO 14001 and all manufacturing is carried out in house in Hyllinge and Markaryd in Sweden.

Ecophon Inside™ is a registered trademark and must not be copied or used in any way without prior approval from Saint-Gobain Ecophon AB.



# DECIBEL ACOUSTIC PANELS

**BOW**

DESIGN - BÖTTCHER & KAYSER

An arc-shaped thin MDF on the diagonal stretches up the fabric like a tent, creating an interesting three-dimensional shape.

Depending on how the absorbent is directed and dressed, you can create infinite combinations and geometric patterns.

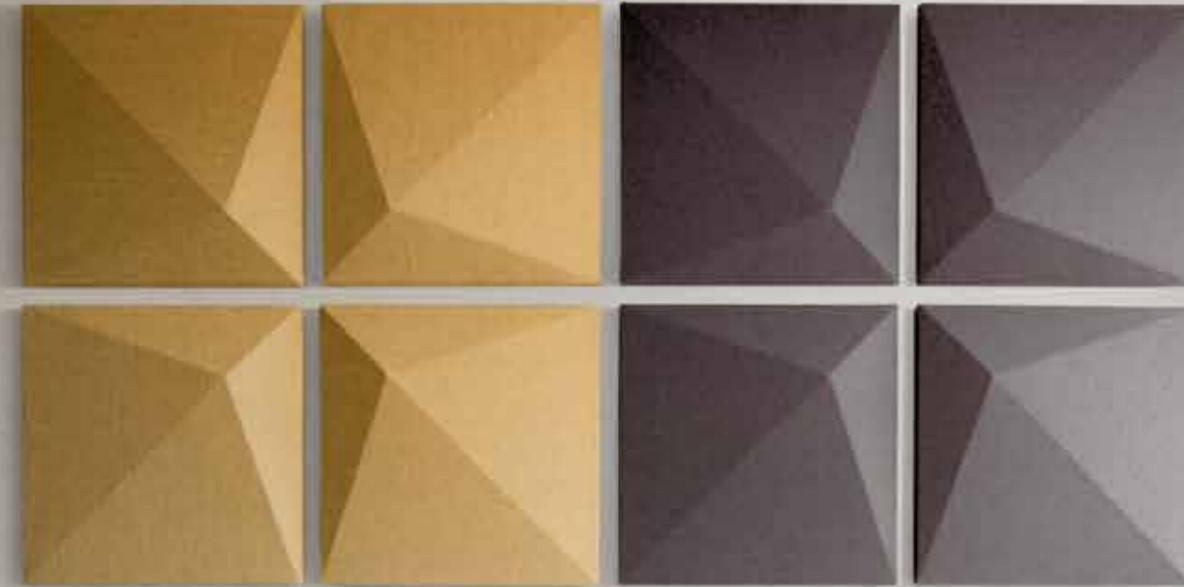
Then add a directed light and exciting shadow formations appear.



## FACETT

DESIGN - BÖTTCHER & KAYSER

Like a cut diamond, Facett plays with surfaces that radiate into a decentralized peak. Depending on the viewing angle and light incidence, its three-dimensionality is understandable and creates exciting relief sculptures. The different surfaces break the sound wave and the cavity between the soundabsorbing material further reinforces its absorption effect.

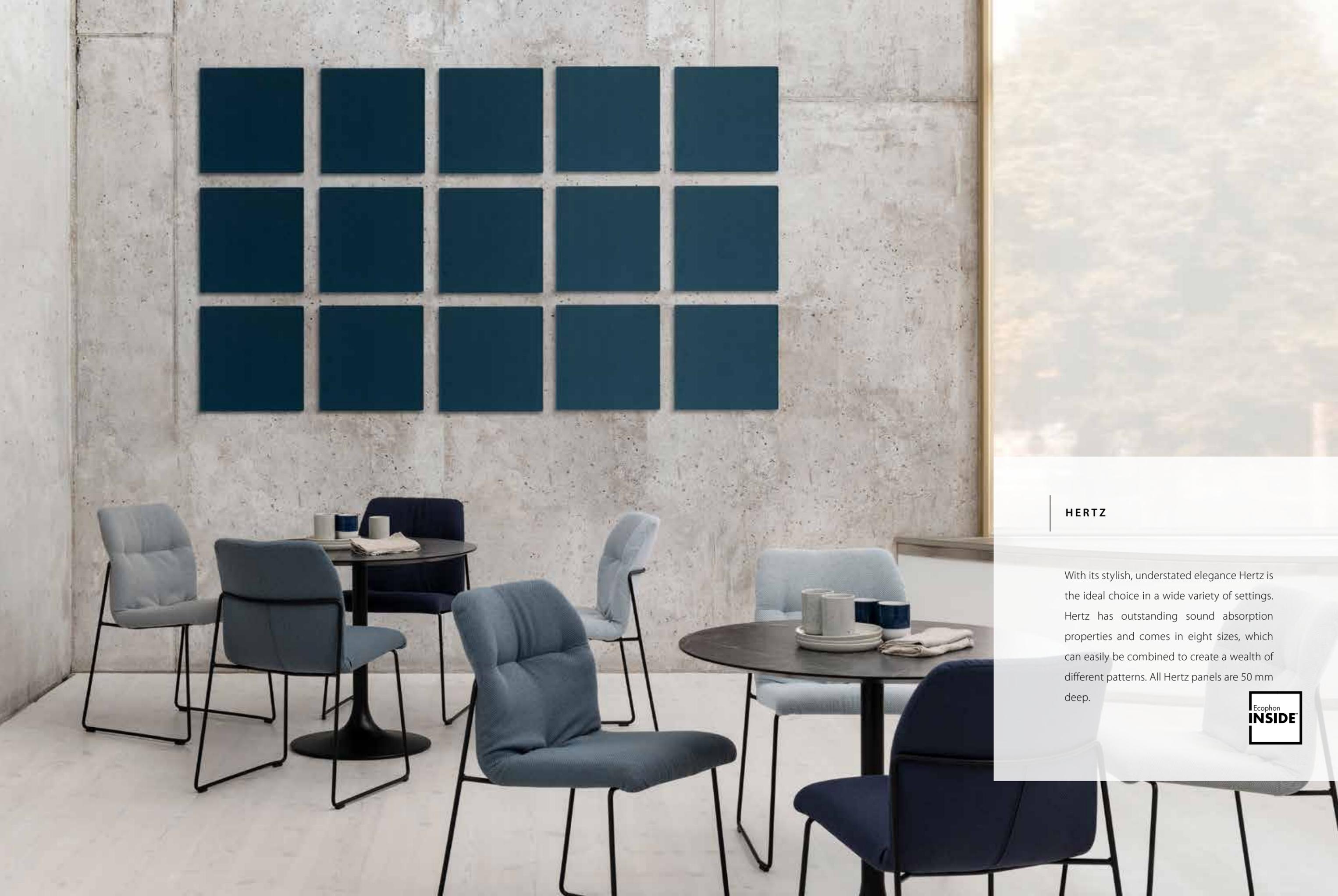




## FREQUENCY

The gently rounded lines of Frequency and the many different shapes and sizes of the panels open up endless opportunities. Frequency comes in a total of 15 sizes and depths.





## HERTZ

With its stylish, understated elegance Hertz is the ideal choice in a wide variety of settings. Hertz has outstanding sound absorption properties and comes in eight sizes, which can easily be combined to create a wealth of different patterns. All Hertz panels are 50 mm deep.





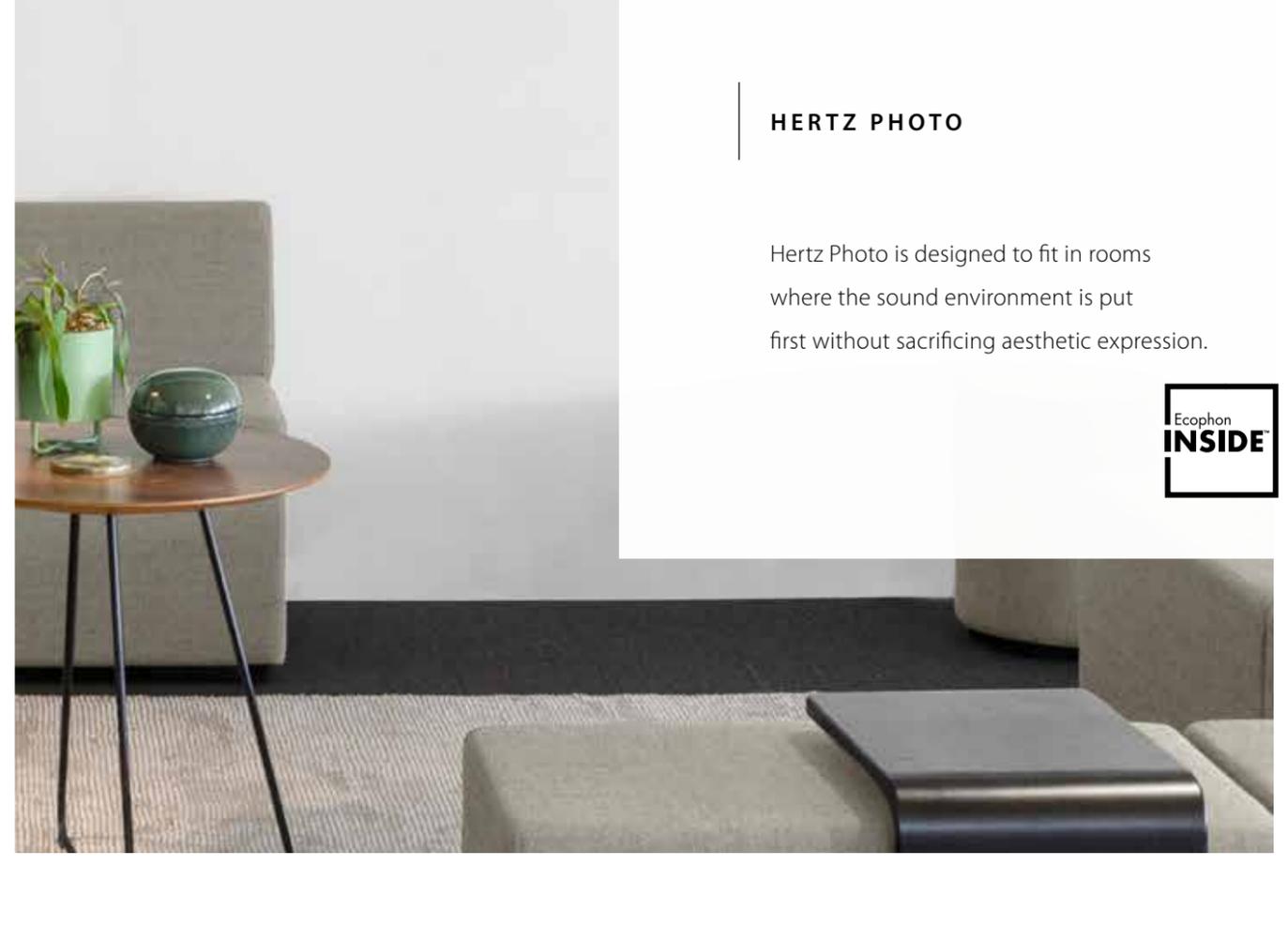
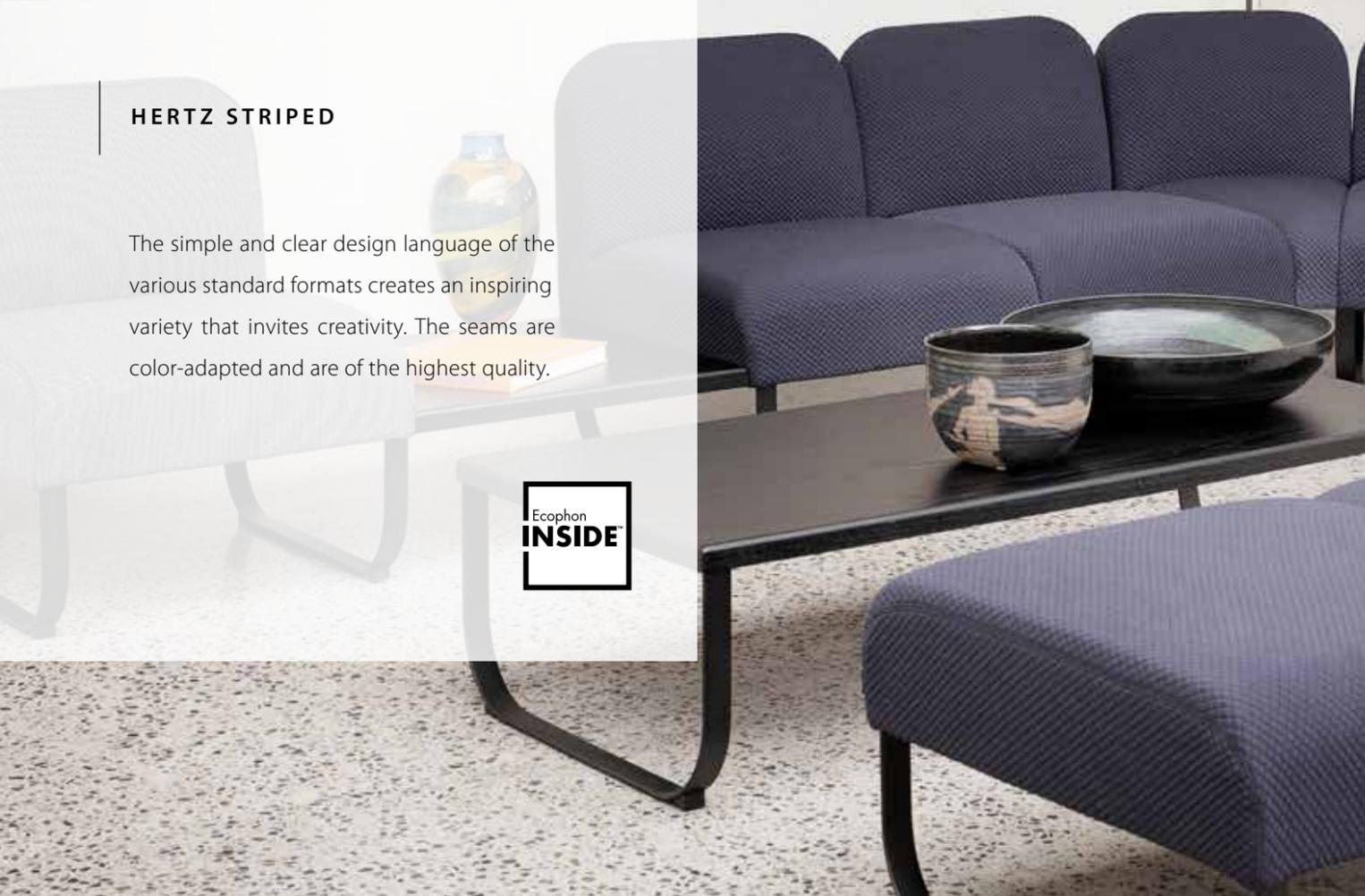
### HERTZ STRIPED

The simple and clear design language of the various standard formats creates an inspiring variety that invites creativity. The seams are color-adapted and are of the highest quality.



### HERTZ PHOTO

Hertz Photo is designed to fit in rooms where the sound environment is put first without sacrificing aesthetic expression.



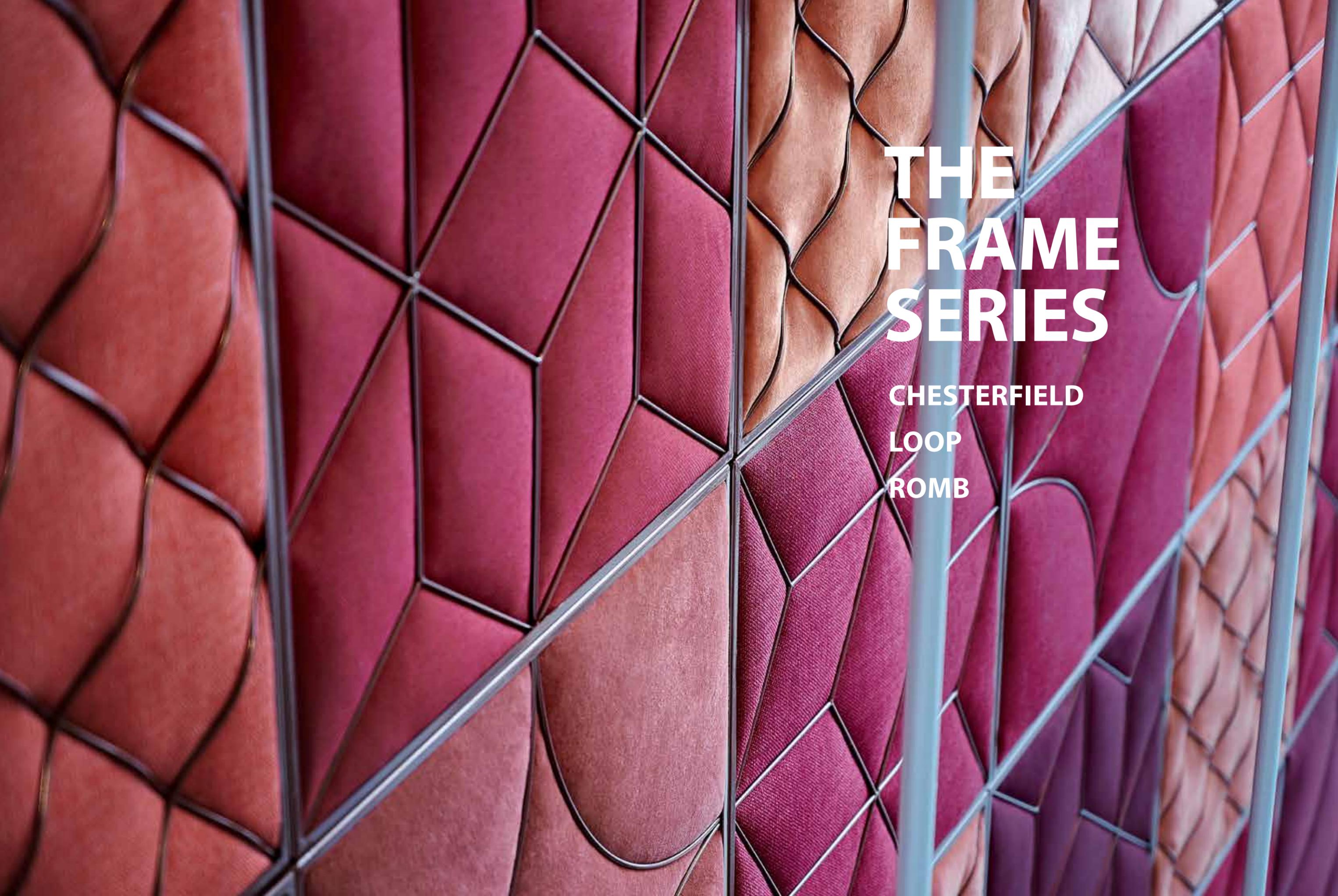


## HERTZ FLOOR

A timeless screen with an understated elegance that effectively absorbs sound to create a pleasant acoustic environment. Hertz can be used as a single decorative panel or linked together screen to screen. Hertz Floor comes in a wide range of sizes and is a flexible modular system that is simple to install in different room constellations.







# THE FRAME SERIES

CHESTERFIELD

LOOP

ROMB

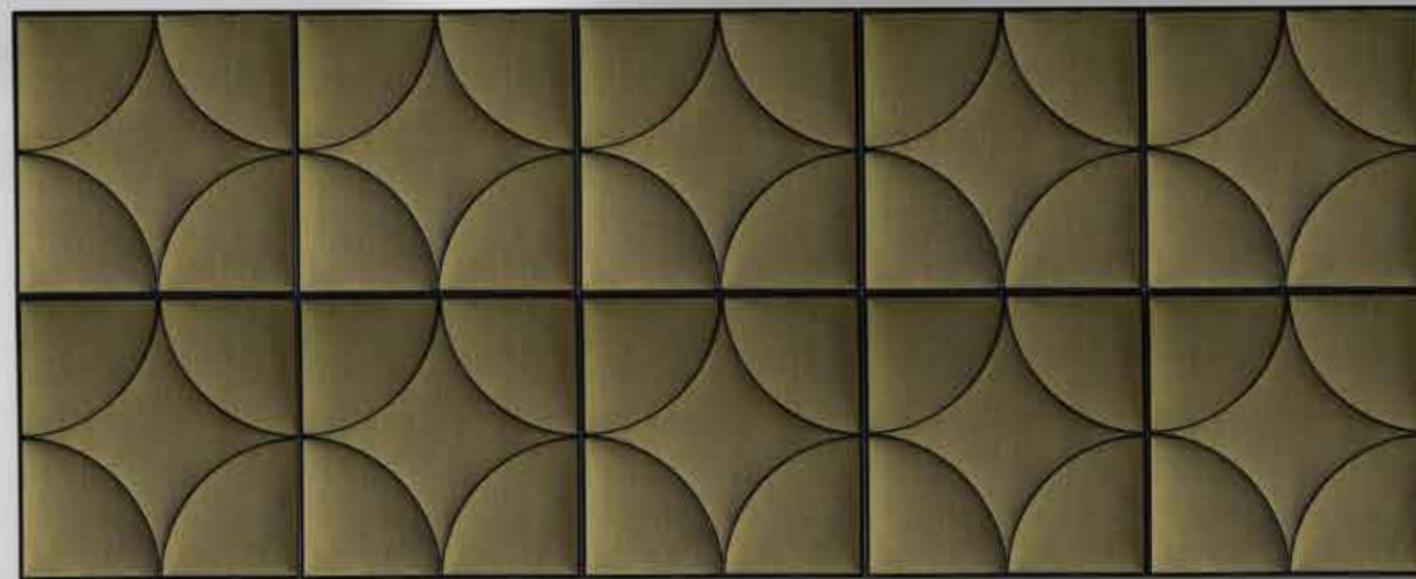
## LOOP

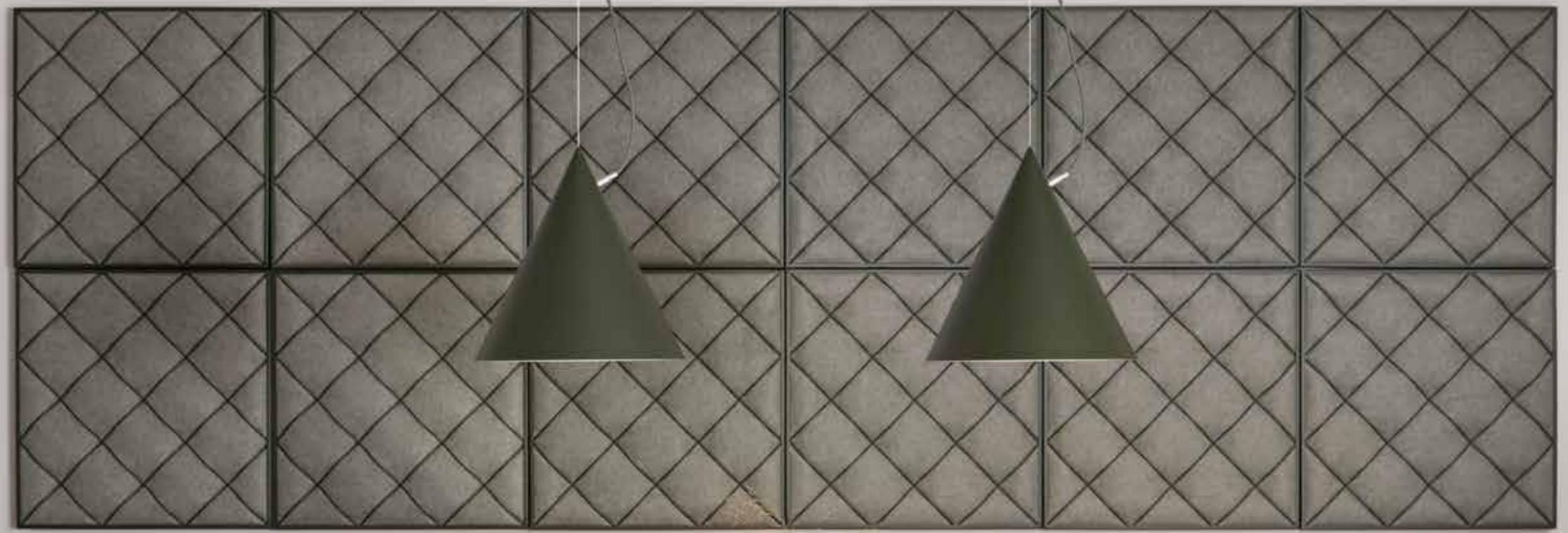
DESIGN - JOHAN LINDSTÉN

Loop's four identical arcs work together to create a geometric basis for expansion.

Depending on how you place Loop, you can vary the look of the finished design, perhaps even offsetting the panels to create the impression of waves billowing across the wall.

Ecophon  
**INSIDE**



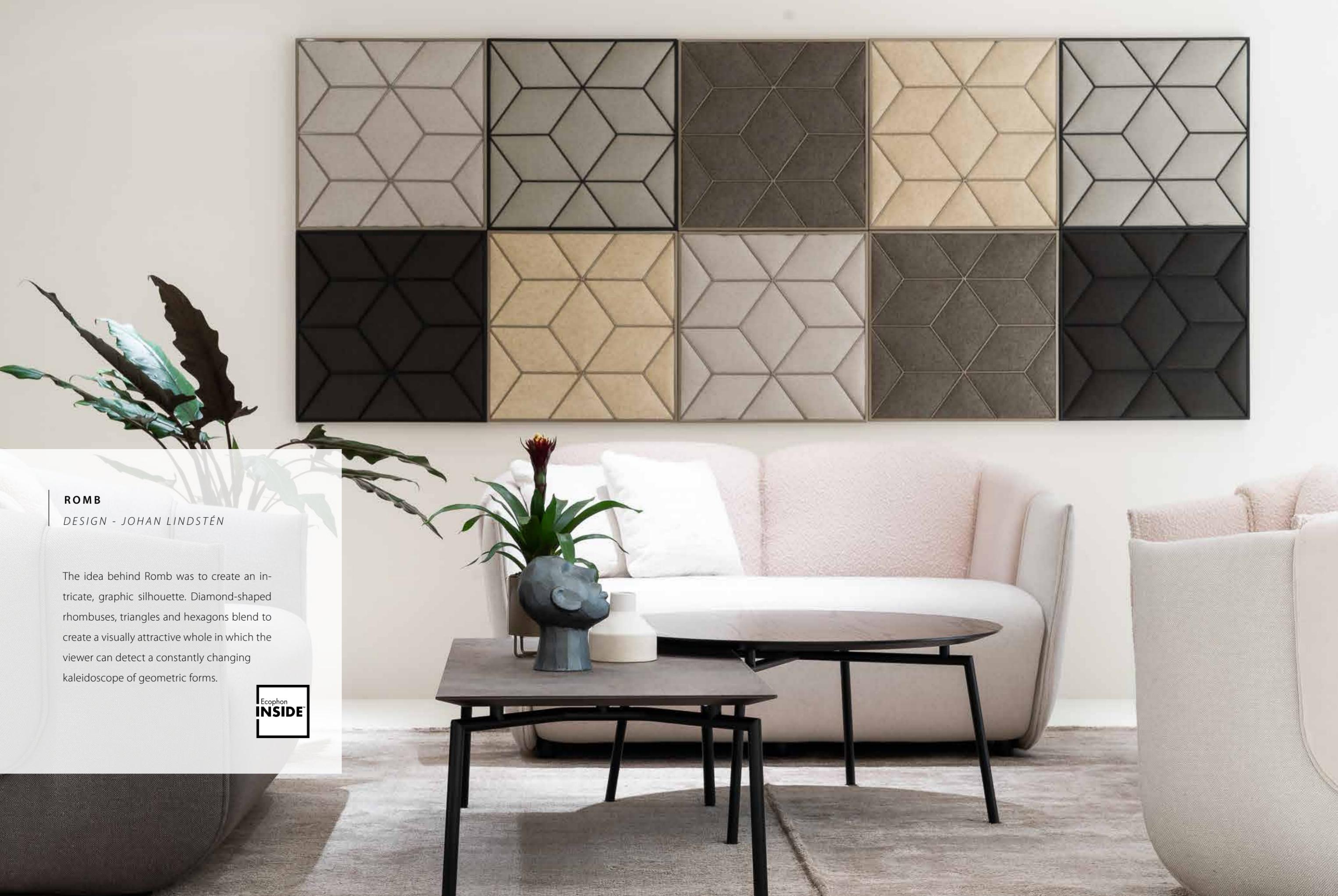


## CHESTERFIELD

DESIGN - JOHAN LINDSTÉN

The name and inspiration for this design come from the iconic, traditional Chesterfield sofa – a timeless design that has become synonymous with deep-buttoned quilting. The height differences of the quilting give the sound absorber its characteristic look, while also enhancing its acoustic and absorbent properties.





## **ROMB**

*DESIGN - JOHAN LINDSTÉN*

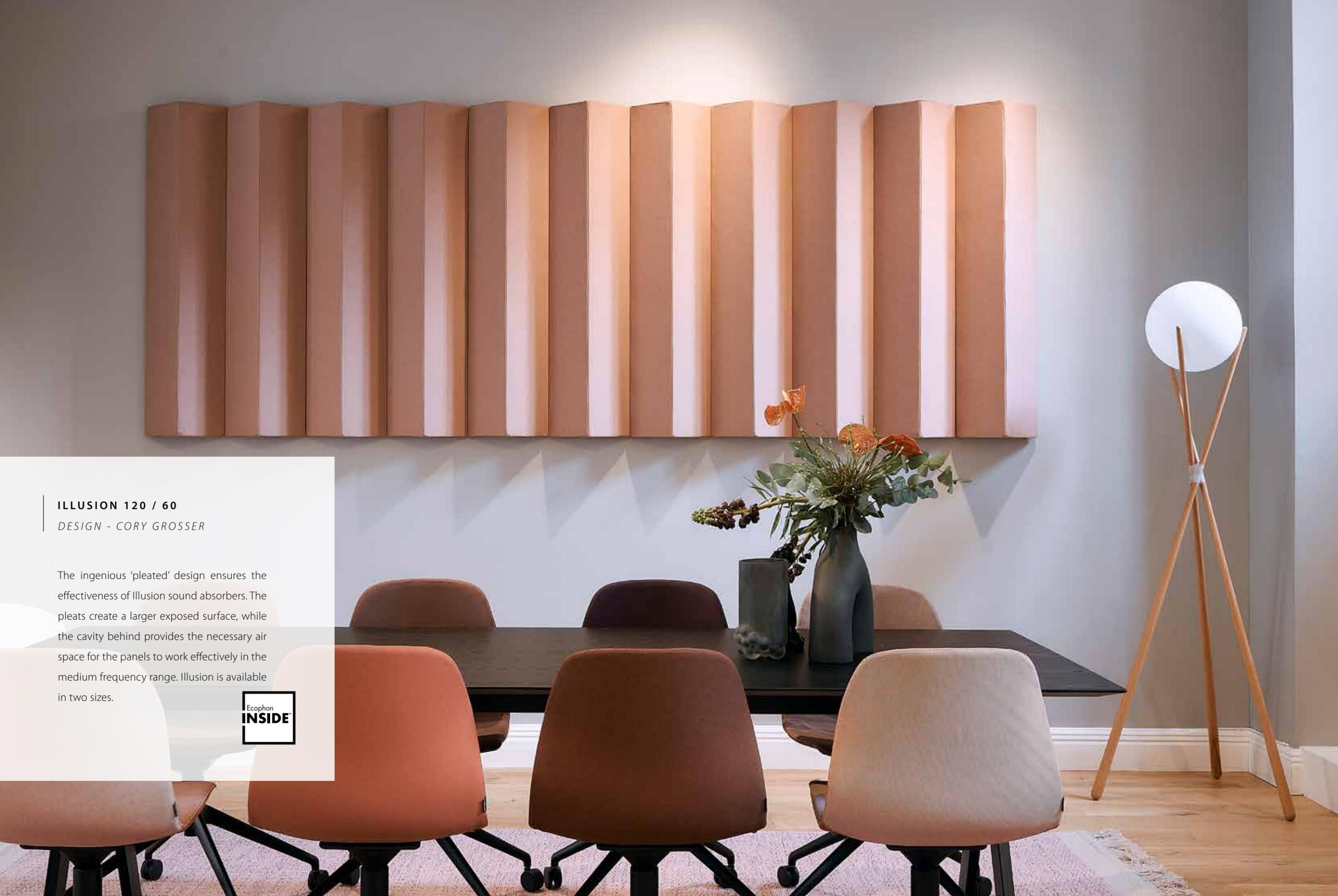
The idea behind Romb was to create an intricate, graphic silhouette. Diamond-shaped rhombuses, triangles and hexagons blend to create a visually attractive whole in which the viewer can detect a constantly changing kaleidoscope of geometric forms.



**ILLUSION 120 / 60**

*DESIGN - CORY GROSSER*

The ingenious 'pleated' design ensures the effectiveness of Illusion sound absorbers. The pleats create a larger exposed surface, while the cavity behind provides the necessary air space for the panels to work effectively in the medium frequency range. Illusion is available in two sizes.





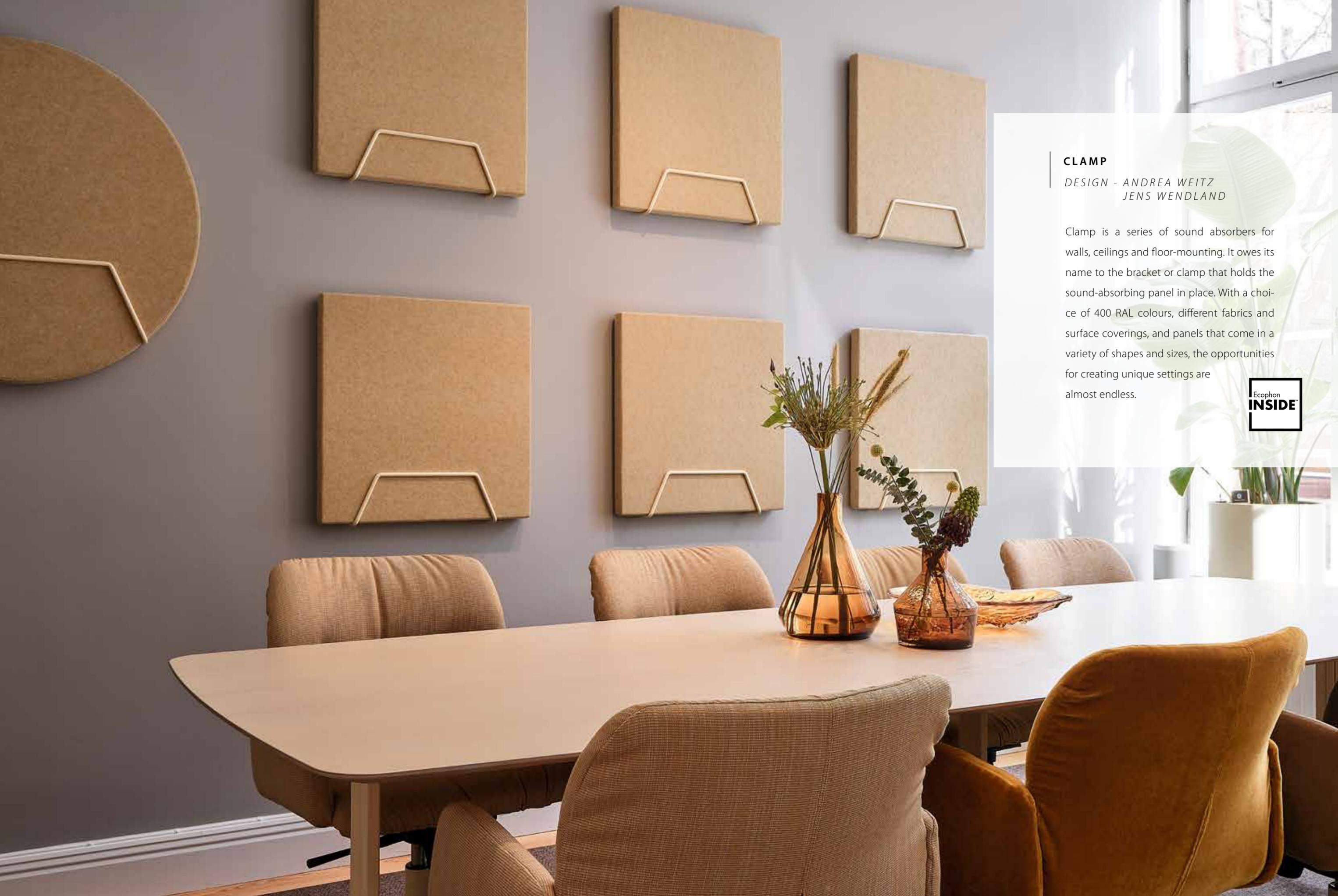


**POST**

*DESIGN - CORY GROSSER*

Inspired by the form of a simple envelope, the clean lines of Post decorate walls with playful symmetry. Varying the angle at which Post is placed adds dynamism, creates intriguing shadows and makes new patterns.





## **CLAMP**

*DESIGN - ANDREA WEITZ  
JENS WENDLAND*

Clamp is a series of sound absorbers for walls, ceilings and floor-mounting. It owes its name to the bracket or clamp that holds the sound-absorbing panel in place. With a choice of 400 RAL colours, different fabrics and surface coverings, and panels that come in a variety of shapes and sizes, the opportunities for creating unique settings are almost endless.









## CUBIC

Cubic, the versatile absorber.

In many environments, creating effective sound reduction is limited due to the architecture of a room or building.

This is where Cubic is a versatile option.

By placing Cubic in a variety of positions, different effects can be obtained. Place it in a corner and use it as a "bass trap", or central in a room, providing improved speech clarity.

The small wheels underneath and the metal tabletop makes the Cubic perfectly designed to be used as a speaker stand or as a bar table.



The frames can be lacquered in a total of 399 colors and structures according to our system Multicolour.



#### PHOTO FRAME PANELS

All Photo Frame are marked with Ecophon Inside which means the highest class of sound absorption. Certified print on fabric with high air permeability for good sound absorption.



## UNIQUE TIMELESS DESIGN

Wall-mounted sound-diffusion panels reduce background noise and travelling voices. They are simply installed on the wall with the help of magnets. Available in black, dark grey, light grey felt and selected fabrics.

# DECIBEL DESIGN PANELS

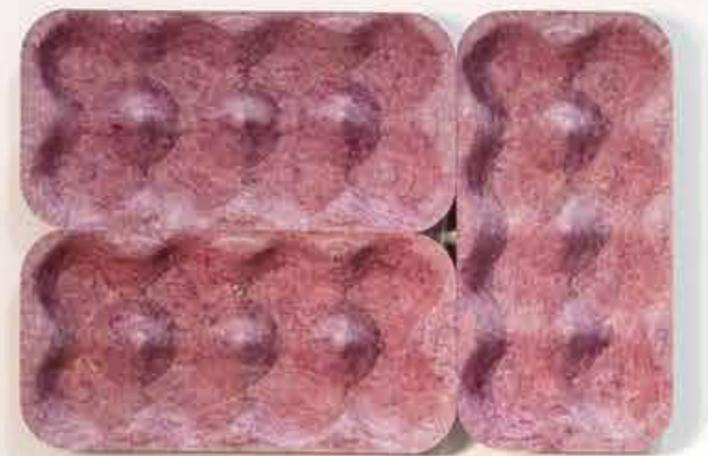




**VICTOR. THE EGGBOX**

*DESIGN - STEFAN FURRER*

The fascination for the eggbox is not a surprise, it has characterized room acoustics like no other element before. The eggbox was something that was easily at hand for many people and which magically helped to change the acoustic qualities in rooms.



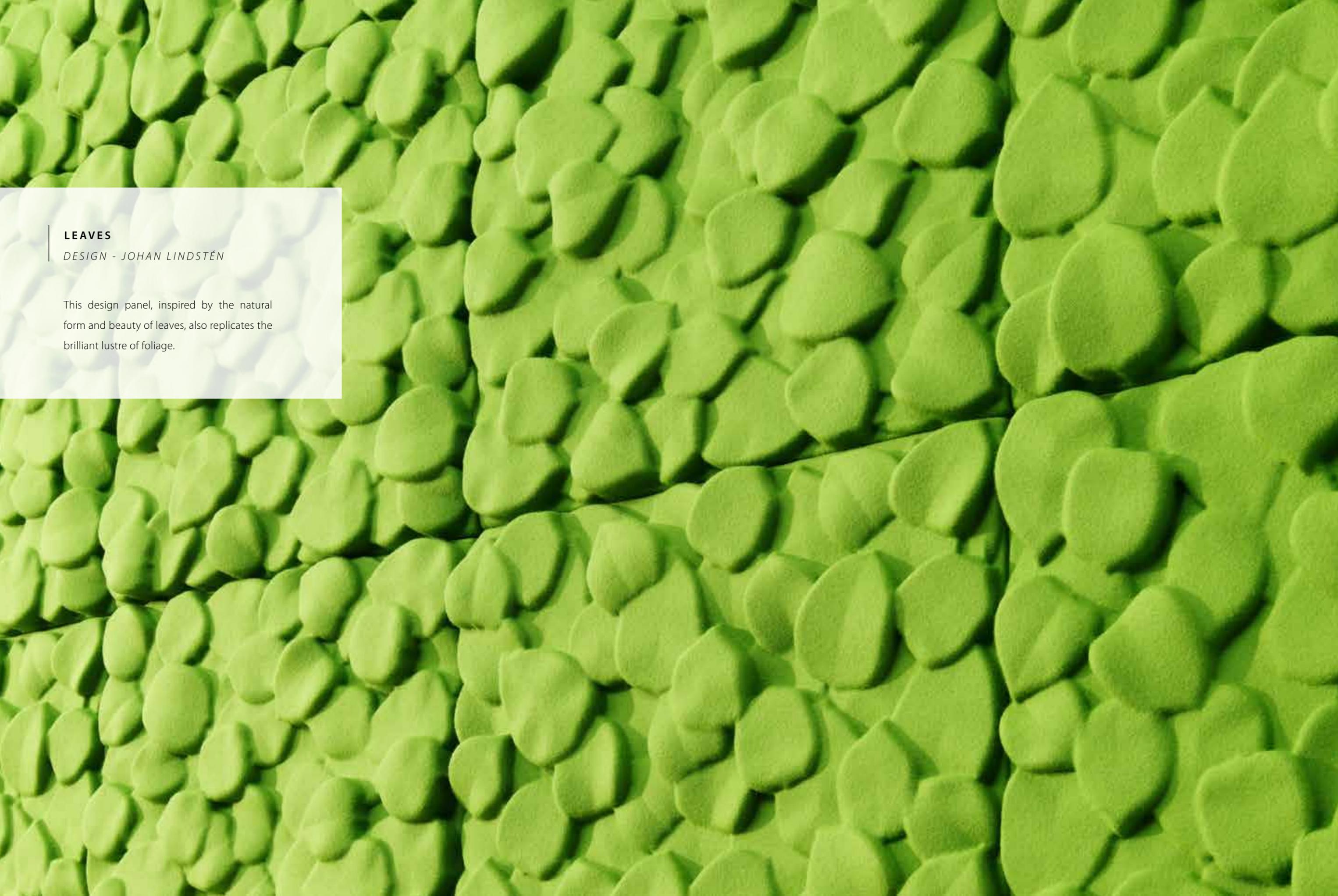


## MOON

DESIGN - JOHAN LINDSTÉN

A wall-mounted sound diffusion panel with a pattern inspired by the surface of the moon, formed by the impacts of comets, asteroids and meteoroids over the course of millions of years.





**LEAVES**

*DESIGN - JOHAN LINDSTÉN*

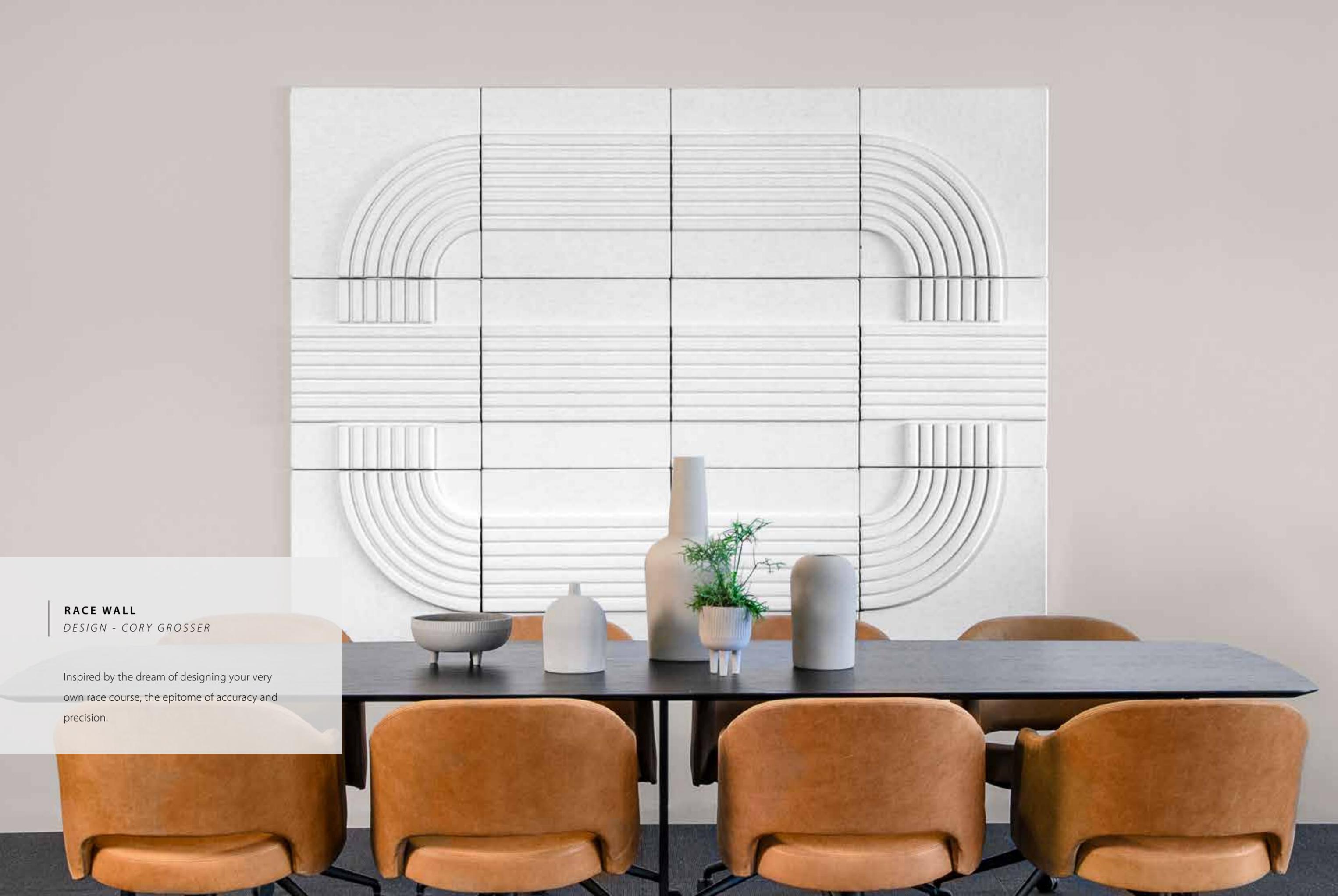
This design panel, inspired by the natural form and beauty of leaves, also replicates the brilliant lustre of foliage.



**BEEHIVE RECTANGULAR & BEEHIVE**

*DESIGN - JOHAN LINDSTÉN*

Inspired by the hexagon, one of nature's strongest and most ingenious shapes. Bees use a six-sided construction in their hives because it is strong and requires a minimum of material. Now this honeycomb pattern is available as a design panel and wall decoration.



**RACE WALL**

*DESIGN - CORY GROSSER*

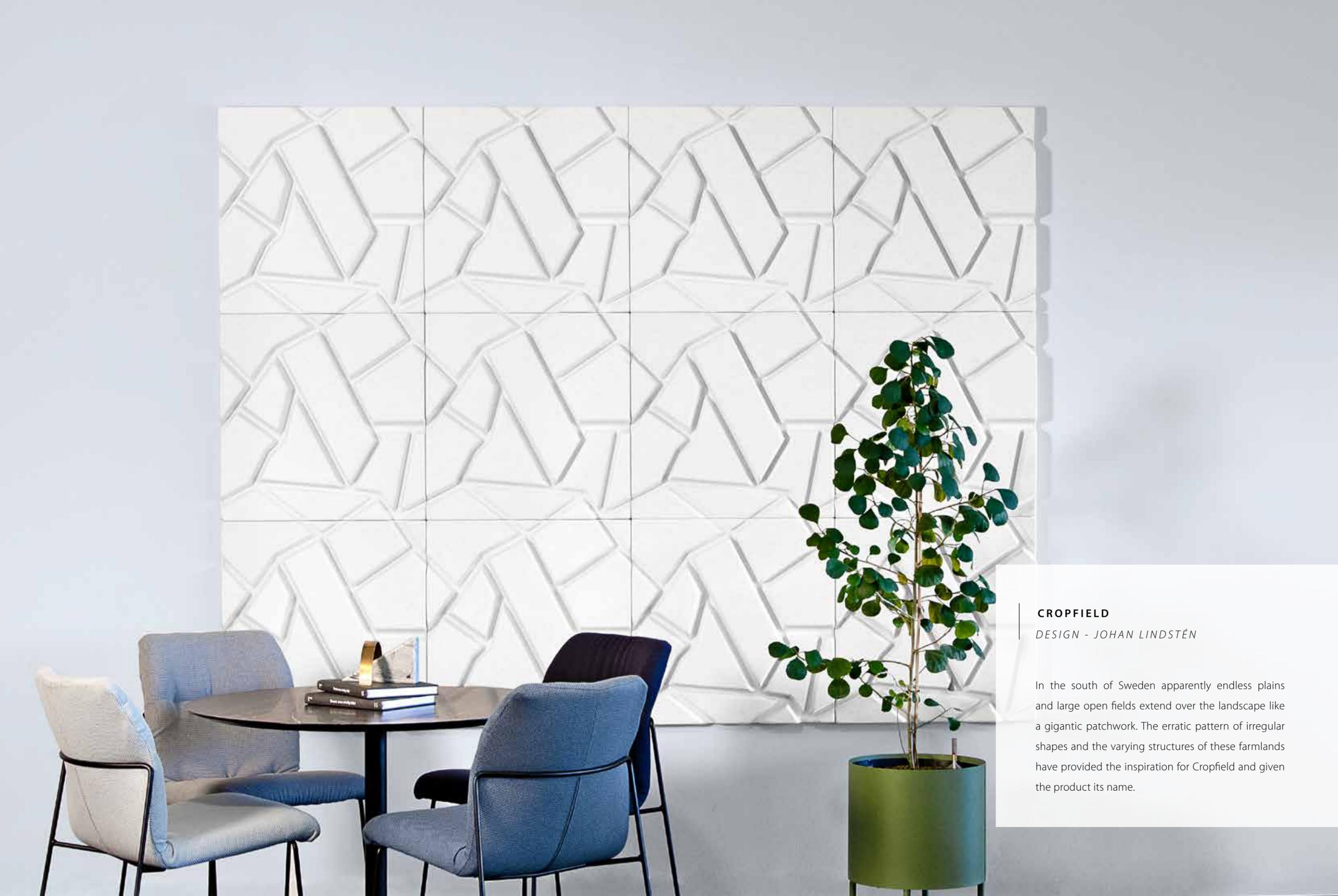
Inspired by the dream of designing your very own race course, the epitome of accuracy and precision.

**PEBBLE**

*DESIGN - JOHAN LINDSTÉN*

Pebble design panel owes its inspiration to the natural beauty and infinite variations of pebble beaches.

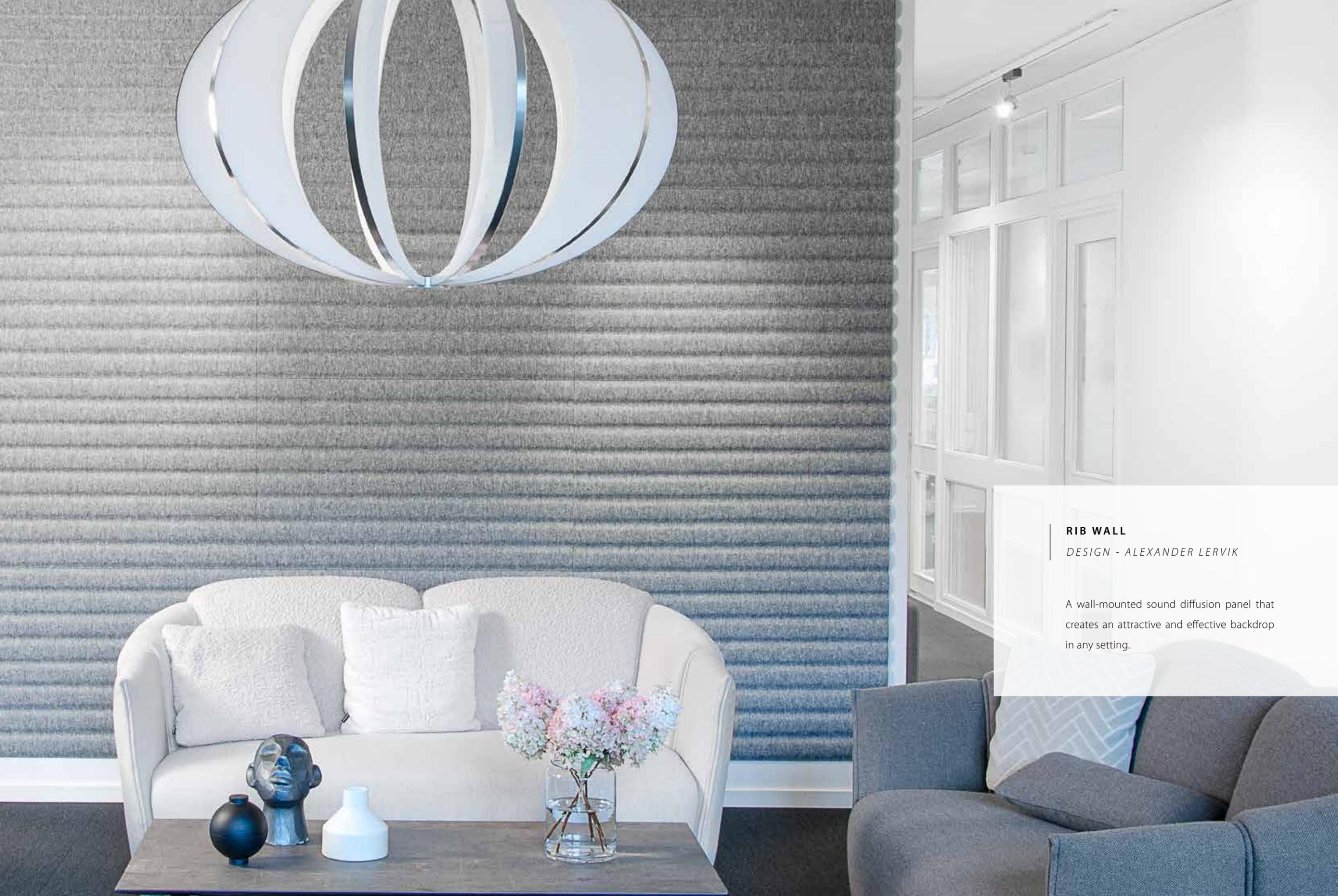




**CROPFIELD**

*DESIGN - JOHAN LINDSTÉN*

In the south of Sweden apparently endless plains and large open fields extend over the landscape like a gigantic patchwork. The erratic pattern of irregular shapes and the varying structures of these farmlands have provided the inspiration for Cropfield and given the product its name.



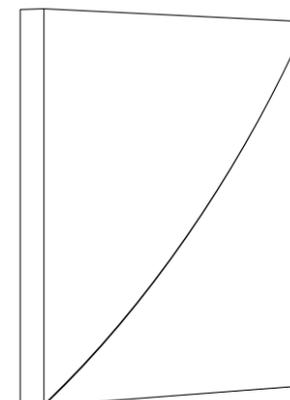
**RIB WALL**

*DESIGN - ALEXANDER LERVIK*

A wall-mounted sound diffusion panel that creates an attractive and effective backdrop in any setting.

# DECIBEL FACTS PRODUCT DETAILS INSTALLATION

## BOW



HEIGHT 60 CM  
WIDHT 60 CM  
DEPTH 11 CM  
WEIGHT 4 KG

### MATERIAL

Ecophon Inside  
Core in MDF-board  
Suspension with wooden beam is standard  
Fabric

### OPTIONS

Magnets for mounting, neodym 4 x ø20 x 6 mm  
200 cm wooden beam when installing several panels in width  
(not in combination with magnets)

### ACOUSTIC PROPERTIES

#### Frekvens i Hz

63	125	250	500	1000	2000	4000	Aw
0,07	0,22	0,76	1,09	1,13	1,12	1,14	1,0

Absorption Class A

Testad enl ISO 354:2003 ISO 11654:1997 ISO 20189:2018

### FIRE TEST

Tested according to EN ISO 11925-2

### UPHOLSTERY MATERIAL

The fabrics for our sound absorbers are carefully selected and tested according to the standard set by all the manufacturers.

#### PG0

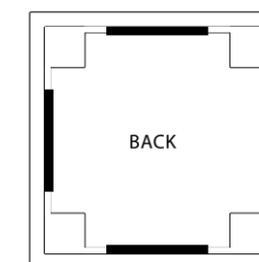
Camira Cara  
Camira Carlow  
Camira Era 170  
Gabriel Event Screen  
Gabriel Hush

#### PG1

Gabriel Soul  
Gabriel Soul Solange  
Gabriel Twist  
Gabriel Twist Melange  
Gabriel Xpress (2,0)  
Kvadrat Remix Screen

### MOUNTING

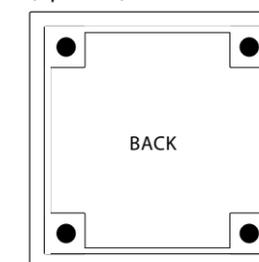
Suspension with wooden beam 4 pcs (standard)



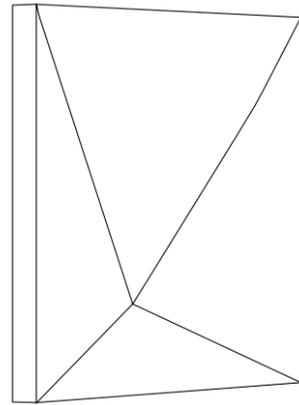
Wooden beam wall 1 pcs



Suspension with magnets 4 pcs (optional)



## FACETT



HEIGHT 60 CM  
 WIDTH 60 CM  
 DEPTH 11 CM  
 WEIGHT 4 KG

### MATERIAL

Ecophon Inside  
 Core in MDF-board  
 Suspension with wooden beam is standard  
 Fabric

### OPTIONS

Magnets for mounting, neodym 4 x ø20 x 6 mm  
 200 cm wooden beam when installing several panels in width  
 (not in combination with magnets)

### ACOUSTIC PROPERTIES

#### Frekvens i Hz

63	125	250	500	1000	2000	4000	Aw
0,06	0,26	0,77	1,18	1,24	1,10	1,06	1,0

Absorption Class A

Testad enl ISO 354:2003 ISO 11654:1997 ISO 20189:2018

### FIRE TEST

Tested according to EN ISO 11925-2

### UPHOLSTERY MATERIAL

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#### PG0

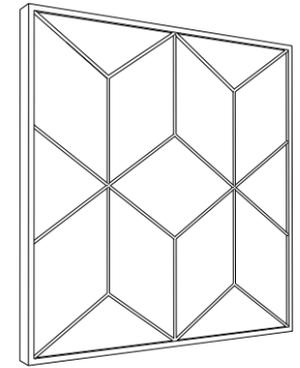
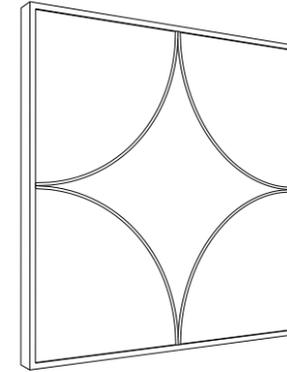
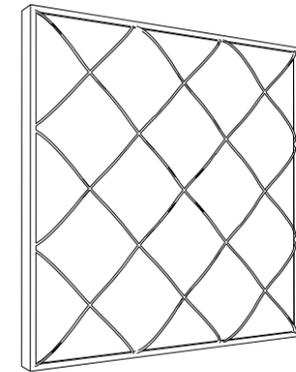
Camira Cara  
 Camira Carlow  
 Camira Era 170  
 Gabriel Event Screen  
 Gabriel Hush

#### PG1

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 Gabriel Soul Solange  
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 Gabriel Twist Melange  
 Gabriel Xpress (2,0)  
 Kvadrat Remix Screen



## CHESTERFIELD / LOOP/ ROMB FRAME FAMILY



HEIGHT 60,5 CM  
 WIDTH 60,5 CM  
 DEPTH 6 CM  
 WEIGHT 7 KG

### MATERIAL

Ecophon Inside  
 Metal frame in selectable RAL color  
 Wire grids  
 Back piece in MDF-board  
 Suspension with wooden beam is standard  
 Fabric

### OPTIONS

Magnets for mounting, Rubber-coated neodym 4 x ø45 x 6 mm.  
 200 cm wooden beam when installing several panels in width  
 (not in combination with magnets)

### ACOUSTIC PROPERTIES

#### Frequency in Hz

63	125	250	500	1000	2000	4000	Aw
0,03	0,19	0,62	1,11	1,19	1,13	1,1	1

Absorption Class A

Tested according to ISO 354 och ISO 11654

### FIRE TEST

Chesterfield / Loop / Romb is tested according to SS-EN ISO 11925-2

### UPHOLSTERY MATERIAL

The fabrics for our sound absorbers are carefully selected and tested according to the standard set by all the manufacturers.

#### PG0

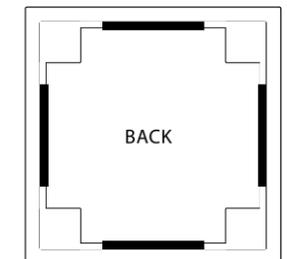
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#### PG1

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 Gabriel Soul Solange  
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 Gabriel Xpress (2,0)  
 Kvadrat Remix Screen

### MOUNTING

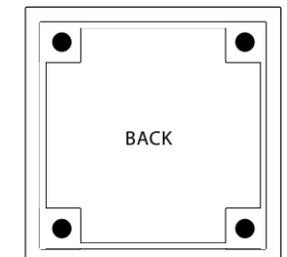
Suspension with wooden beam 4 pcs (standard)



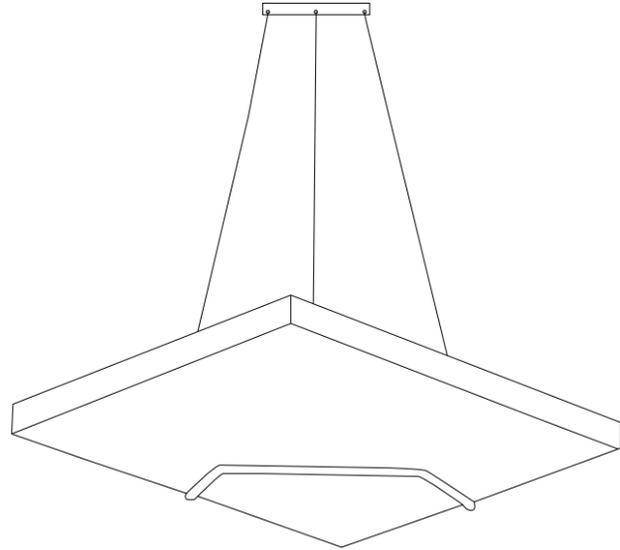
Wooden beam wall 1 pcs



Suspension with magnets 4 pcs (optional)



## CLAMP CEILING



HEIGHT 59,5 CM  
 WIDTH 59,5 CM  
 DEPTH 4,5 CM  
 TOTAL DEPTH 6,5 CM  
 TOTAL WEIGHT 3,6 KG

### MATERIAL

Ecophon Inside  
 Fabric  
 Metal clamp for ceiling in selectable RAL color  
 Wire 80 cm / 150 cm  
 Adjustable cable lock with hook  
 Ceiling fastener in selectable RAL color

### ACOUSTIC PROPERTIES

#### Frequency in Hz

63	125	250	500	1000	2000	4000	Aw
0,02	0,17	0,62	1,16	1,16	1,09	1,01	0,95

Absorption Class A

Tested according to ISO 354 och ISO 11654

### FIRE TEST

Clamp is tested according to SS-EN ISO 11925-2

### UPHOLSTERY MATERIAL

The fabrics for our sound absorbers are carefully selected and tested according to the standard set by all the manufacturers.

#### PG0

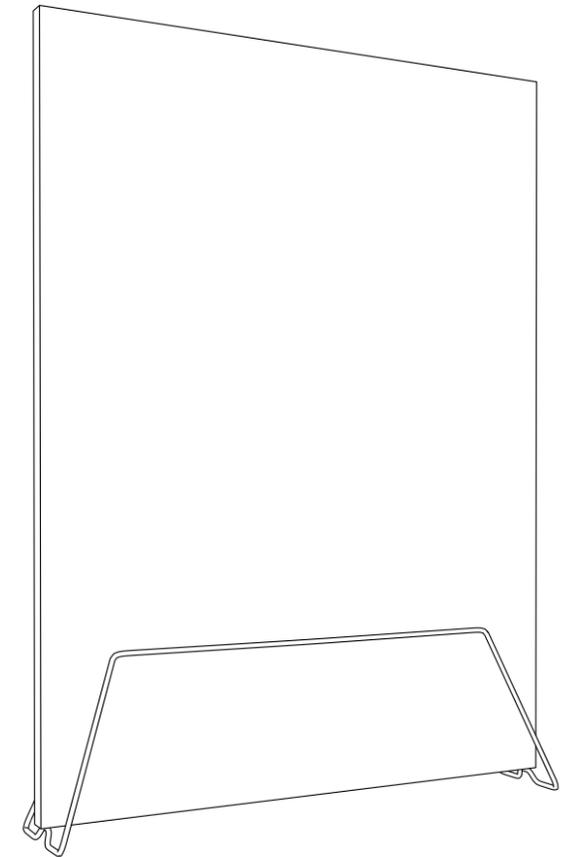
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 Camira Carlow  
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#### PG1

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 Gabriel Soul Solange  
 Gabriel Twist  
 Gabriel Twist Melange  
 Gabriel Xpress (2,0)  
 Kvadrat Remix Screen



## CLAMP FLOOR



HEIGHT 170 CM  
 WIDTH 120 CM  
 DEPTH 4,8 CM  
 TOTAL DEPTH 45 CM  
 WEIGHT 7,4 KG  
 FRAME WEIGHT 4,6 KG

### MATERIAL

Ecophon Inside  
 Fabric  
 Metal frame in selectable RAL color

### ACOUSTIC PROPERTIES

#### Frequency in Hz

63	125	250	500	1000	2000	4000	N10
0,07	0,63	1,43	2,61	2,87	2,46	2,19	4,5

Absorption Class A

Tested according to ISO 354 och SS 25269

### FIRE TEST

Clamp is tested according to SS-EN ISO 11925-2

### UPHOLSTERY MATERIAL

The fabrics for our sound absorbers are carefully selected and tested according to the standard set by all the manufacturers.

#### PG0

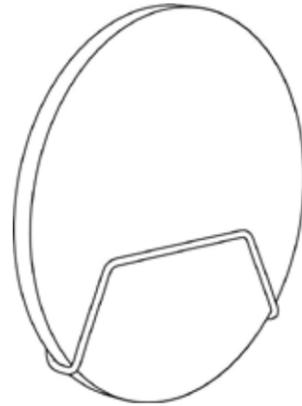
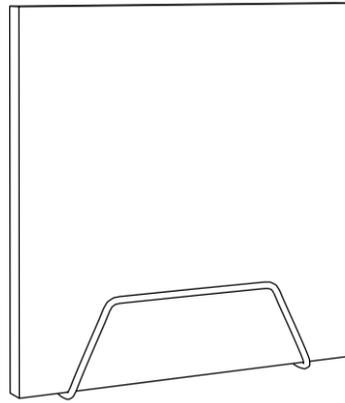
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 Camira Carlow  
 Camira Era 170  
 Gabriel Event Screen  
 Gabriel Hush

#### PG1

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 Gabriel Soul Solange  
 Gabriel Twist  
 Gabriel Twist Melange  
 Gabriel Xpress (2,0)  
 Kvadrat Remix Screen



## CLAMP WALL SQUARE / ROUND



HEIGHT 59,5/79,5 CM  
 WIDTH 59,5/79,5 CM  
 DEPTH 4 CM  
 TOTAL DEPTH 6 CM  
 TOTAL WEIGHT 2,6/5,2 KG

DIAMETER ø60/80 CM  
 WIDTH 4 CM  
 TOTAL DEPTH 6 CM  
 TOTAL WEIGHT 2,8/3,6 KG

**MATERIAL**  
 Ecophon Inside  
 Fabric  
 Metal frame in selectable RAL color

### ACOUSTIC PROPERTIES

Frequency in Hz	63	125	250	500	1000	2000	4000	Aw
	0,02	0,17	0,62	1,16	1,16	1,09	1,01	0,95

Absorption Class A

Tested according to ISO 354 och ISO 11654

### FIRE TEST

Clamp is tested according to SS-EN ISO 11925-2

### UPHOLSTERY MATERIAL

The fabrics for our sound absorbers are carefully selected and tested according to the standard set by all the manufacturers.

#### PG0

Camira Cara  
 Camira Carlow  
 Camira Era 170  
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 Gabriel Hush

#### PG1

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 Gabriel Soul Solange  
 Gabriel Twist  
 Gabriel Twist Melange  
 Gabriel Xpress (2,0)  
 Kvadrat Remix Screen



## CUBIC 16/32

HEIGHT 100 CM 200 CM  
 WIDTH 40 CM 40 CM  
 DEPTH 40 CM 40 CM  
 WEIGHT 17 kg 23 kg

### MATERIAL

Ecophon Inside  
 Wooden shell  
 Fabric Gabriel Xpress  
 For other fabrics request a quote  
 With wheels for easy placement  
 Top / bottom in metal, with optional RAL-colour, black or white finish

### FIRE TEST

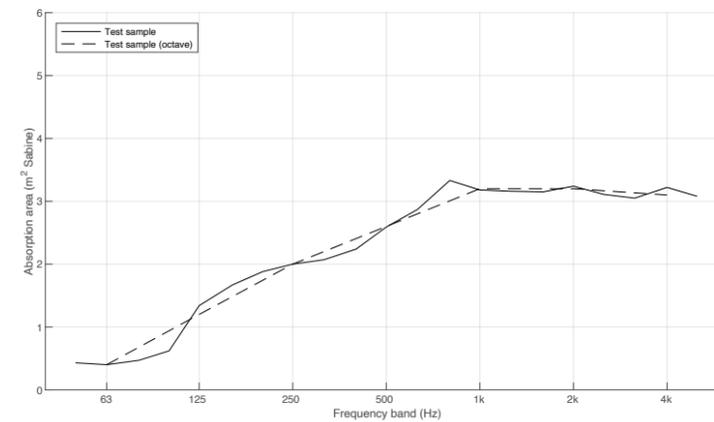
Will be tested shortly

### ACOUSTIC PROPERTIES

The absorber placed in the middle of the room

#### Frequency in Hz

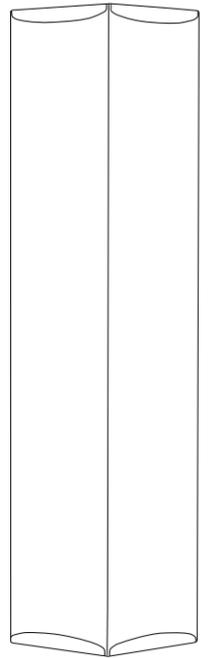
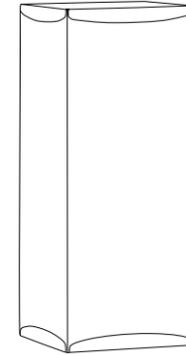
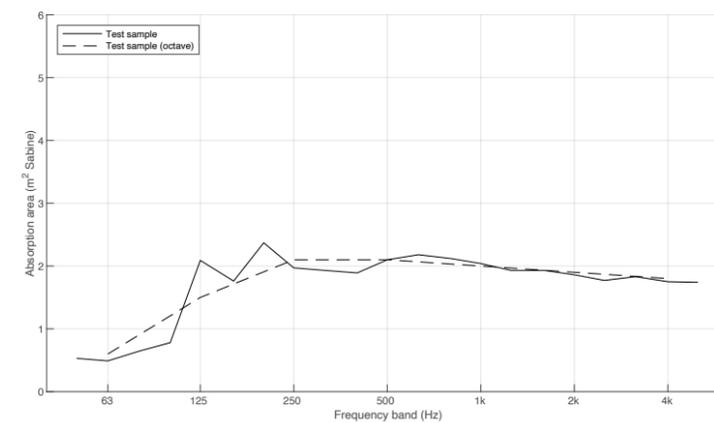
63	125	250	500	1000	2000	4000	N10
0,4	1,34	2,0	2,59	3,18	3,24	3,22	3,8



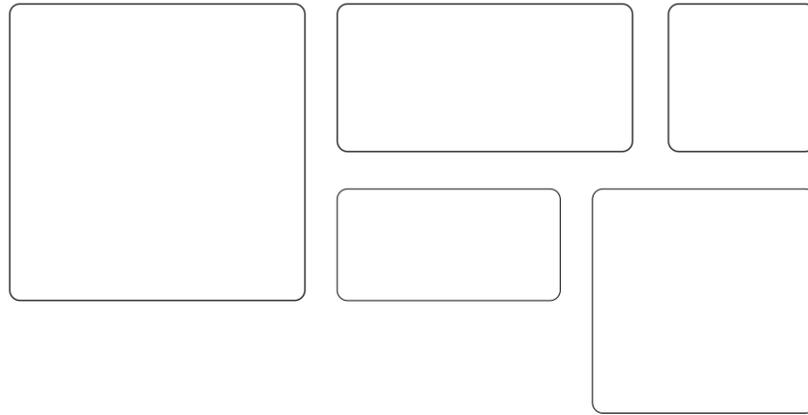
The absorber placed in a corner (bass trap).

#### Frequency in Hz

63	125	250	500	1000	2000	4000	N10
0,49	2,09	1,97	2,10	2,04	1,86	1,75	5,6



## FREQUENCY



HEIGHT	80 CM	80 CM	60 CM	60 CM	40 CM
WIDTH	80 CM	40 CM	60 CM	30 CM	40 CM
TOTAL DEPTH	4/8/12 CM	4/8/12 CM	4/8/12 CM	4/8/12 CM	4/8/12 CM
WEIGHT	5,5/6,5/8 KG	2,5/3/4 KG	3/4/5 KG	1,5/2/2,5 KG	1,5/1,7/2 KG

### MATERIAL

Ecophon Inside  
Back piece in MDF-board  
Suspension with wooden beam is standard  
Fabric

### OPTIONS

Magnets for mounting, neodym 4 x ø20 x 6 mm  
200 cm wooden beam when installing several panels in width  
(not in combination with magnets)

### ACOUSTIC PROPERTIES

Frequency in Hz							
63	125	250	500	1000	2000	4000	Aw
0,02	0,17	0,62	1,16	1,16	1,09	1,01	0,95

Absorption Class A

Tested according to ISO 354 och ISO 11654

### FIRE TEST

Frequency is tested according to EN ISO 11925-2

### UPHOLSTERY MATERIAL

The fabrics for our sound absorbers are carefully selected and tested according to the standard set by all the manufacturers.

#### PG0

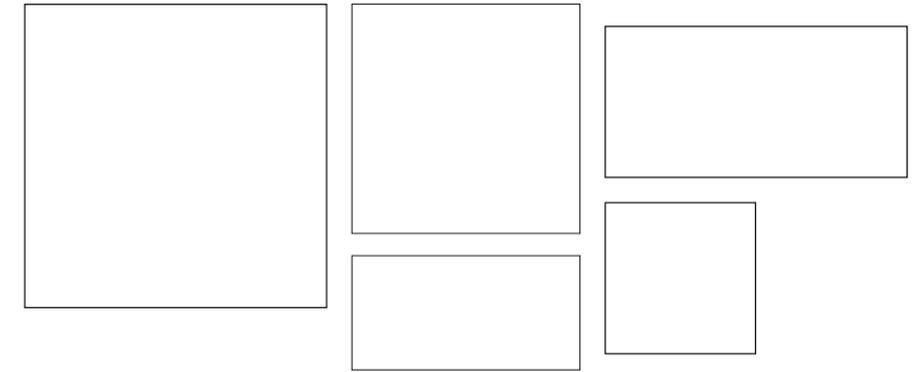
Camira Cara  
Camira Carlow  
Camira Era 170  
Gabriel Event Screen  
Gabriel Hush

#### PG1

Gabriel Soul  
Gabriel Soul Solange  
Gabriel Twist  
Gabriel Twist Melange  
Gabriel Xpress (2,0)  
Kvadrat Remix Screen



## HERTZ & HERTZ PHOTO



Dimensions in (cm)

30x60x5  
40x40x5  
40x80x5  
60x60x5  
80x80x5  
120x30x5  
120x60x5  
120x120x5

\*For special measurements request a quote.

### MATERIAL

Ecophon Inside  
Back piece in MDF-board  
Suspension with metal strip is standard  
Fabric

### OPTIONS

Magnets for mounting, neodym 4 x ø20 x 6 mm  
200 cm wooden beam when installing several panels in width  
(not in combination with magnets)

### ACOUSTIC PROPERTIES

Frequency in Hz							
63	125	250	500	1000	2000	4000	Aw
0,02	0,17	0,62	1,16	1,16	1,09	1,01	0,95

Absorption Class A

Tested according to ISO 354 och ISO 11654

### FIRE TEST

Hertz is tested according to SS-EN ISO 11925-2

### UPHOLSTERY MATERIAL

The fabrics for our sound absorbers are carefully selected and tested according to the standard set by all the manufacturers.  
Hertz is now available with your own unique photo or motif. The print is certified based on the requirements for the fabric selection that allows the amount of air required to achieve the right performance on the products.  
For price with your own photo/motif please contact Decibel customer support.

#### PG0

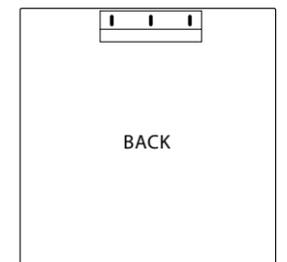
Camira Cara  
Camira Carlow  
Camira Era 170  
Gabriel Event Screen  
Gabriel Hush

#### PG1

Gabriel Soul  
Gabriel Soul Solange  
Gabriel Twist  
Gabriel Twist Melange  
Gabriel Xpress (2,0)  
Kvadrat Remix Screen

### MOUNTING

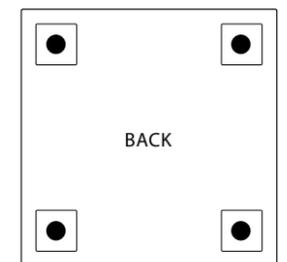
Suspension with metal strip



Metal wall molding 1 pcs



Suspension with magnets 4 pcs (optional)



## HERTZ FLOOR

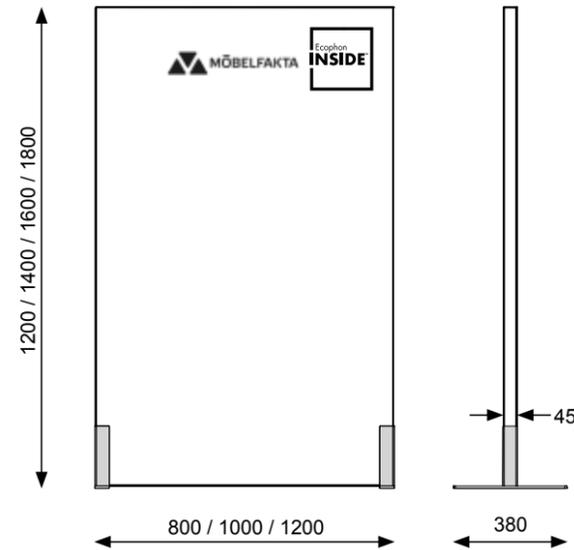
### MATERIAL

Core: Ecophon Inside  
 Frame: Birch plywood 40x18 mm  
 Metal fittings: Metal in selectable RAL color  
 Selectable fabric

### FABRIC

The fabrics we use for our sound absorbers are all carefully selected and tested according to the current standard used by manufacturers.  
 Prices on application for other fabrics an photo print.

PG0		PG1	
Camira	Cara	Gabriel	Soul
Camira	Carlow	Gabriel	Soul Solange
Camira	Era 170	Gabriel	Twist
Gabriel	Event Screen	Gabriel	Twist Melange
Gabriel	Hush	Gabriel	Xpress (2,0)
		Kvadrat	Remix Screen



\* The screens are flexible in size and can be produced in special measurements. Prices on request.

### ACOUSTIC FACTS

The screens and its sound absorbing abilities can be declared by using the standard of N10. This measuring method is developed by Acoustic Facts in cooperation with the Swedish Judicial Board for Public Lands and Funds, and describes the demands for a screen that is measured according the standard SS 25269.

#### acoustic facts

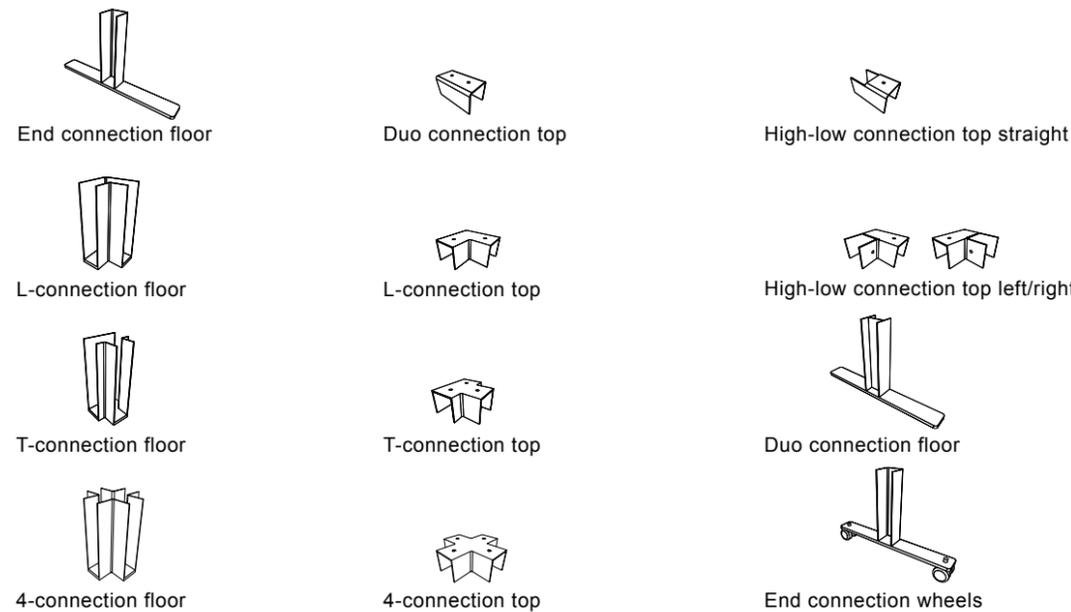
Storlek (b x h i mm)	N <sub>10</sub> ≤ (Must be less than below)	Hertz floor
1200x1600	8	3,8
1200x1800	7	3,4
1000x1500	9	-
1000x1600	9	4,5
1000x1800	8	4,5

### FIRE TEST

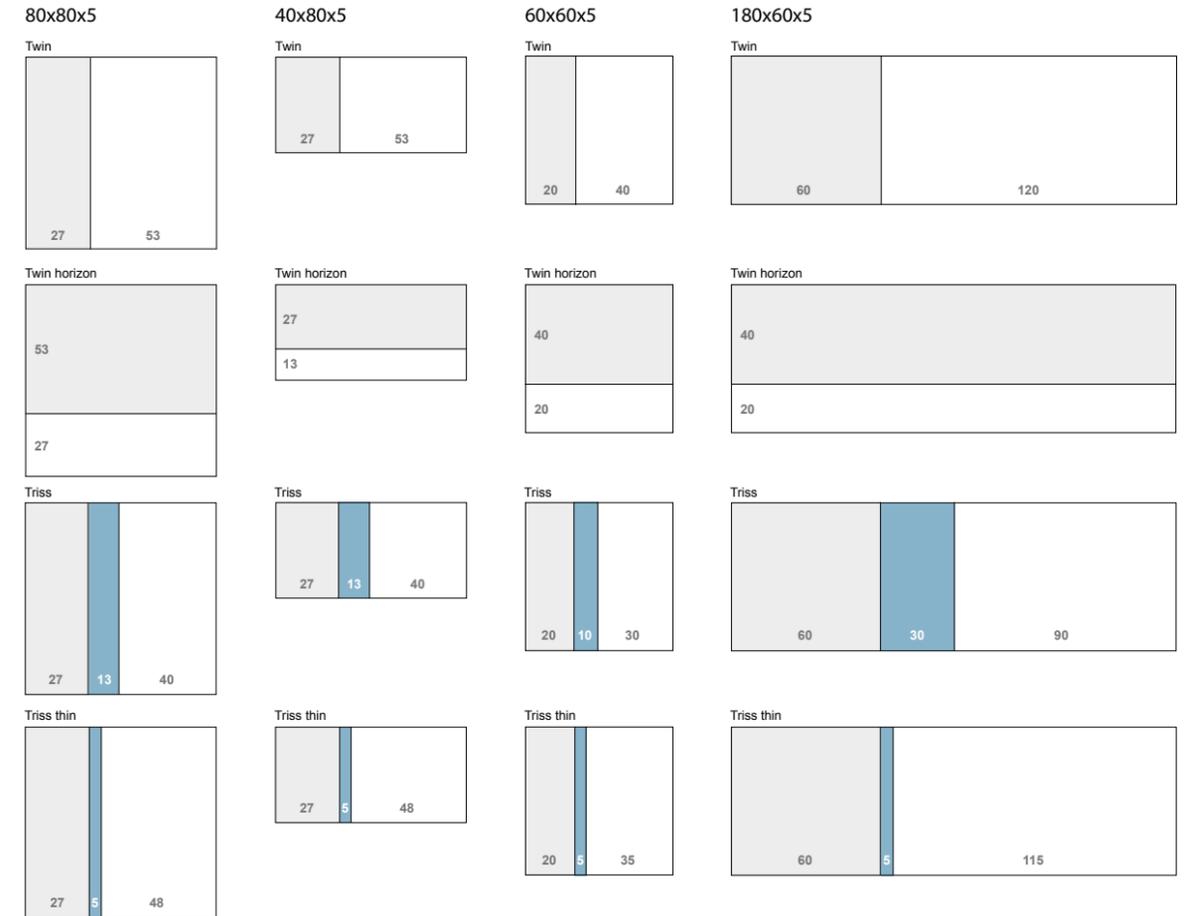
Testad enligt EN ISO 11925-2

### METAL FITTINGS

Choose from the Decibel selection of colours – a total of 192 RAL colours, available both as solid colours (gloss 72) and in a subtly textured finish for an elegant matt surface.  
 In addition we can offer 15 RAL colours in a mother-of-pearl finish.



## HERTZ STRIPED



### MATERIAL

Ecophon Inside  
 Back piece in MDF-board  
 Suspension with metal strip is standard  
 Fabric

### OPTIONS

Magnets for mounting

### ACOUSTIC PROPERTIES

#### Frequency in Hz

63	125	250	500	1000	2000	4000	Aw
0,02	0,17	0,62	1,16	1,16	1,09	1,01	0,95

Absorption Class A

Tested according to ISO 354 och ISO 11654

### FIRE TEST

Hertz is tested according to SS-EN ISO 11925-2

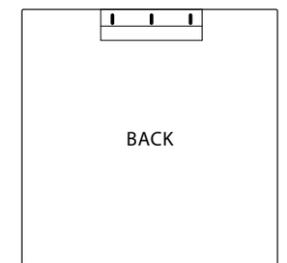
### FABRIC

Gabriel Hush  
 For other fabrics request a quote.



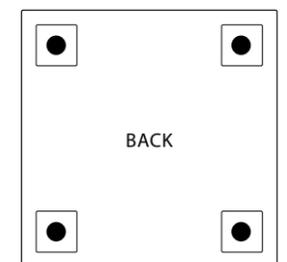
### MOUNTING

Suspension with metal strip



Metal wall molding 1 pcs

Suspension with magnets 4 pcs (optional)



## PHOTO FRAME



Dimensions in (cm)

68x68x5  
88x88x5  
128x68x5  
128x128x5

\*For special measurements request a quote.

### MATERIAL

Ecophon Inside  
Anodized aluminum frame  
Certified print on fabric with high air permeability for good sound absorption  
Suspension with metal strip is standard

### IMAGE MOTIVES

Choose an image from our image archive or attach your own material

### OPTIONS

RAL - painted frame  
For price request a quote

### ACOUSTIC PROPERTIES

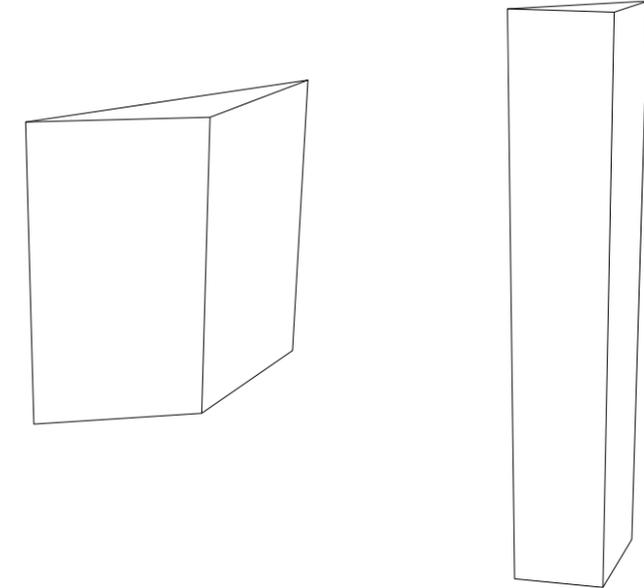
#### Frequency in Hz

63	125	250	500	1000	2000	4000	Aw
0,02	0,17	0,62	1,16	1,16	1,09	1,01	0,95

Absorption Class A

Tested according to ISO 354 och ISO 11654

## ILLUSION 60 / 120



HEIGHT 60 CM  
WIDTH 60 CM  
DEPTH 12 CM  
WEIGHT 2,7 KG

HEIGHT 120 CM  
WIDTH 30 CM  
DEPTH 12 CM  
WEIGHT 2,7 KG

### MATERIAL

Ecophon Inside  
Back piece in MDF-board  
Suspension with wooden beam is standard  
Fabric

### OPTIONS

Magnets for mounting, neodym 4 x ø20 x 6 mm  
200 cm wooden beam when installing several panels in width  
(not in combination with magnets)

### ACOUSTIC PROPERTIES

#### Frequency in Hz

63	125	250	500	1000	2000	4000	Aw
0,03	0,19	0,61	1,02	1,02	1,12	1,16	1

Absorption Class A

Tested according to ISO 354 och ISO 11654

### FIRE TEST

Illusion is tested according to SS-EN ISO 11925-2

### UPHOLSTERY MATERIAL

The fabrics for our sound absorbers are carefully selected and tested according to the standard set by all the manufacturers.

#### PG0

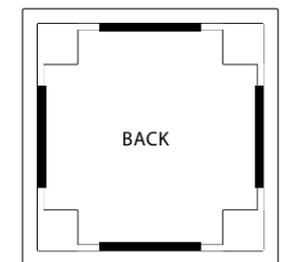
Camira Cara  
Camira Carlow  
Camira Era 170  
Gabriel Event Screen  
Gabriel Hush

#### PG1

Gabriel Soul  
Gabriel Soul Solange  
Gabriel Twist  
Gabriel Twist Melange  
Gabriel Xpress (2,0)  
Kvadrat Remix Screen

### MOUNTING

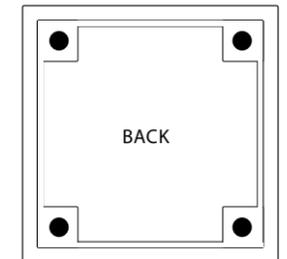
Suspension with wooden beam 4 pcs (standard)



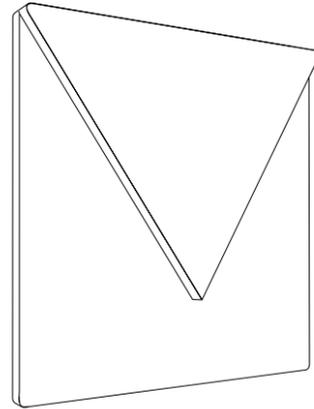
Wooden beam wall 1 pcs



Suspension with magnets 4 pcs (optional)



## POST



HEIGHT 59,5 CM  
 WIDTH 59,5 CM  
 DEPTH 6 CM  
 WEIGHT 3,8 KG

### MATERIAL

Ecophon Inside  
 Back piece in MDF-board  
 Suspension with wooden beam is standard  
 Fabric

### OPTIONS

Magnets for mounting, neodym 4 x ø20 x 6 mm  
 200 cm wooden beam when installing several panels in width  
 (not in combination with magnets)

### ACOUSTIC PROPERTIES

#### Frequency in Hz

63	125	250	500	1000	2000	4000	Aw
0,02	0,17	0,62	1,16	1,16	1,09	1,01	0,95

Absorption Class A

Tested according to ISO 354 och ISO 11654

### FIRE TEST

Post is tested according to SS-EN ISO 11925-2

### UPHOLSTERY MATERIAL

The fabrics for our sound absorbers are carefully selected and tested according to the standard set by all the manufacturers.

#### PG0

Camira Cara  
 Camira Carlow  
 Camira Era 170  
 Gabriel Event Screen  
 Gabriel Hush

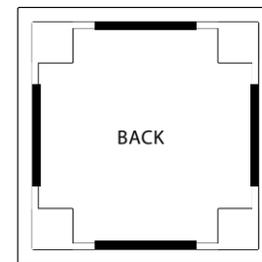
#### PG1

Gabriel Soul  
 Gabriel Soul Solange  
 Gabriel Twist  
 Gabriel Twist Melange  
 Gabriel Xpress (2,0)  
 Kvadrat Remix Screen



### MOUNTING

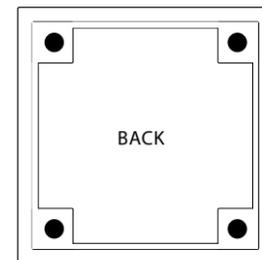
Suspension with  
 wooden beam 4 pcs  
 (standard)



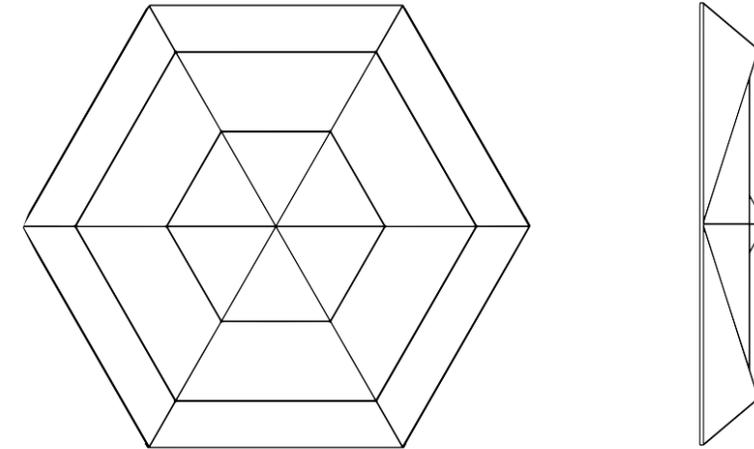
Wooden beam wall 1 pcs



Suspension with  
 magnets 4 pcs  
 (optional)



## BEEHIVE



HEIGHT 55 CM  
 WIDTH 47,5 CM  
 DEPTH 7,5 CM  
 WEIGHT 0,5 KG  
 AREA 0,26 M<sup>2</sup>  
 VOLUME 0,027 M<sup>3</sup>

### MATERIAL

Polyester  
 Felt black / dark grey / light grey  
 Gabriel Europost  
 Magnets for mounting, 2 x ø30 x 6 mm

### ACOUSTIC PROPERTIES

#### Frequency in Hz

63	125	250	500	1000	2000	4000	Aw
0,0	0,1	0,5	1,0	0,9	0,9	1,0	0,6

Absorption Class C

Tested according to ISO 354:2003, ISO 25269:2013, ISO 11654:1997

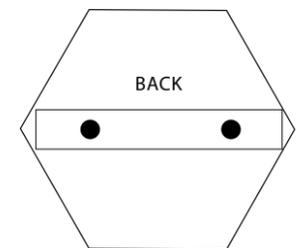
### FIRE TEST

Tested according to EN ISO 11925-2

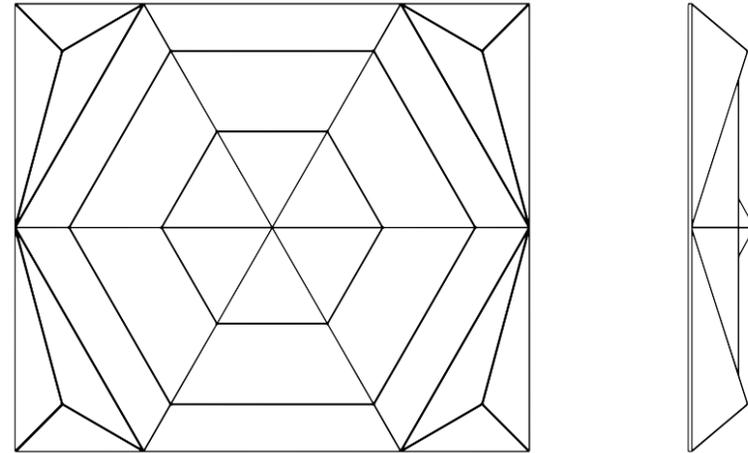


### MOUNTING

Magnets for mounting 2 pcs



## BEEHIVE RECTANGULAR



HEIGHT 55 CM  
WIDTH 47,5 CM  
DEPTH 7,5 CM  
WEIGHT 0,8 KG  
AREA 0,26 M<sup>2</sup>  
VOLUME 0,032 M<sup>3</sup>

**MATERIAL**  
Polyester  
Felt black / dark grey / light grey  
Gabriel Europost  
Magnets for mounting, 4 x ø30 x 6 mm

### ACOUSTIC PROPERTIES

Frequency in Hz							
63	125	250	500	1000	2000	4000	Aw
0,0	0,1	0,5	1,0	0,9	0,9	1,0	0,6

Absorption Class C

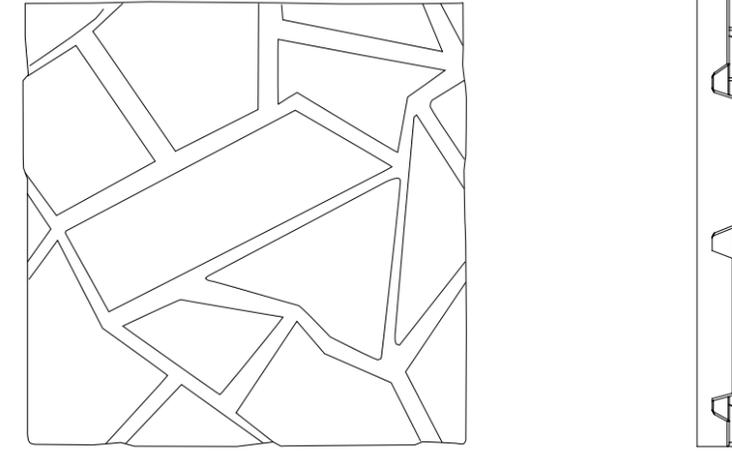
Tested according to ISO 354:2003, ISO 25269:2013, ISO 11654:1997

### FIRE TEST

Tested according to EN ISO 11925-2



## CROPFIELD



HEIGHT 60,5 CM  
WIDTH 60,5 CM  
DEPTH 5,5 CM  
WEIGHT 0,9 KG  
AREA 0,36 M<sup>2</sup>  
VOLUME 0,038 M<sup>3</sup>

**MATERIAL**  
Polyester  
Felt black / dark grey / light grey  
Gabriel Europost  
Magnets for mounting, 4 x ø30 x 6 mm

### ACOUSTIC PROPERTIES

Frequency in Hz							
63	125	250	500	1000	2000	4000	Aw
0,0	0,1	0,5	1,0	0,9	0,9	1,0	0,6

Absorption Class C

Tested according to ISO 354:2003, ISO 25269:2013, ISO 11654:1997

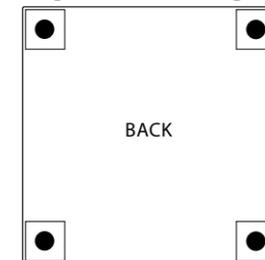
### FIRE TEST

Tested according to EN ISO 11925-2



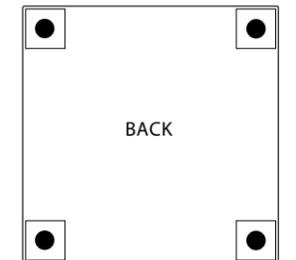
### MOUNTING

Magnets for mounting 4 pcs

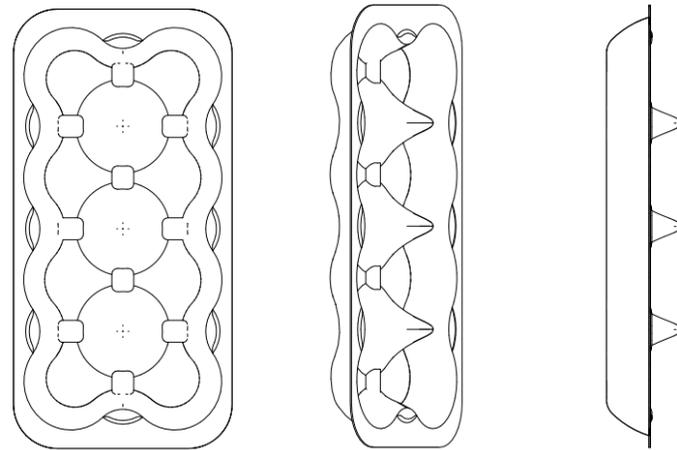


### MOUNTING

Magnets for mounting 4 pcs



## VICTOR. THE EGGBOX



HEIGHT 60 CM  
 WIDTH 30 CM  
 DEPTH 10 CM  
 WEIGHT 0,45 KG

### MATERIAL

Polyester 70% (recyclable fibers)  
 Hemp 30% (organic fibers)  
 Suspension with magnets, 4 x ø20 x 5 mm

### COLORS



### ACOUSTIC PROPERTIES

Frequency in Hz	63	125	250	500	1000	2000	4000	Aw
	0,0	0,05	0,20	0,55	0,85	0,75	0,9	0,5

Absorption Class D

Tested according to EN ISO 354:2003, EN ISO 11654:1997

### FIRE TEST

Tested according to EN ISO 11925-2



## LEAVES



HEIGHT 60,5 CM  
 WIDTH 60,5 CM  
 DEPTH 6,6 CM  
 WEIGHT 0,9 KG  
 AREA 0,36 M<sup>2</sup>  
 VOLUME 0,038 M<sup>3</sup>

### MATERIAL

Polyester  
 Felt black / dark grey / light grey  
 Gabriel Europost  
 Magnets for mounting, 4 x ø30 x 6 mm

### ACOUSTIC PROPERTIES

Frequency in Hz	63	125	250	500	1000	2000	4000	Aw
	0,0	0,1	0,5	1,0	0,9	0,9	1,0	0,6

Absorption Class C

Tested according to ISO 354:2003, ISO 25269:2013, ISO 11654:1997

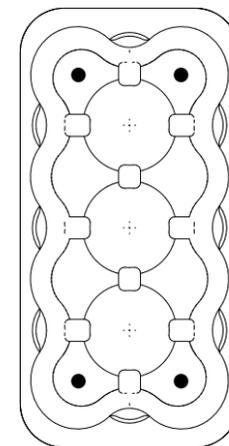
### FIRE TEST

Tested according to EN ISO 11925-2

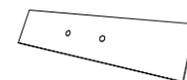


### MOUNTING

Suspension with magnets 4 pcs

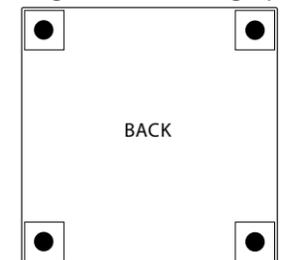


Mounting plate 180x40 2st

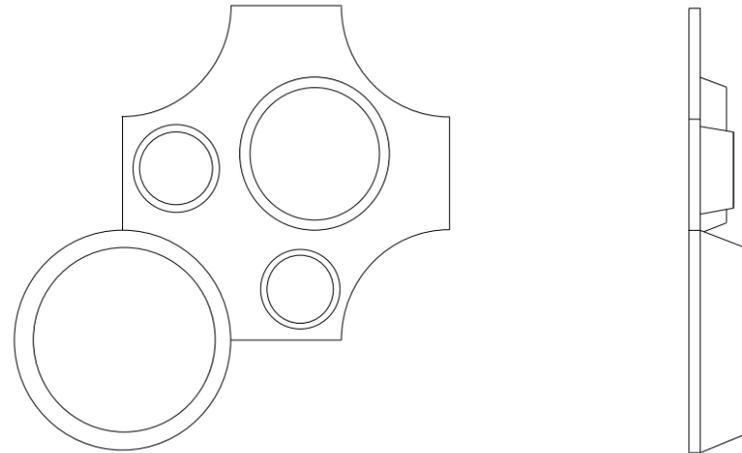


### MOUNTING

Magnets for mounting 4 pcs



## MOON



HEIGHT 90 CM  
WIDTH 55 CM  
DEPTH 9 CM  
WEIGHT 0,9 KG  
AREA 0,36 M<sup>2</sup>  
VOLUME 0,064 M<sup>3</sup>

### MATERIAL

Polyester  
Felt black / dark grey / light grey  
Gabriel Europost  
Magnets for mounting, 3 x ø30 x 6 mm

### ACOUSTIC PROPERTIES

Frequency in Hz								
63	125	250	500	1000	2000	4000	Aw	
0,0	0,1	0,5	1,0	0,9	0,9	1,0	0,6	

Absorption Class C

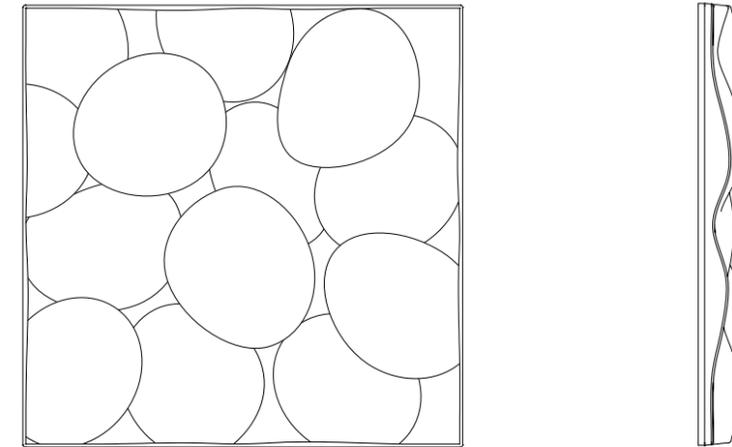
Tested according to ISO 354:2003, ISO 25269:2013, ISO 11654:1997

### FIRE TEST

Tested according to EN ISO 11925-2



## PEBBLE



HEIGHT 60,5 CM  
WIDTH 60,5 CM  
DEPTH 7,5 CM  
WEIGHT 0,9 KG  
AREA 0,36 M<sup>2</sup>  
VOLUME 0,038 M<sup>3</sup>

### MATERIAL

Polyester  
Felt black / dark grey / light grey  
Gabriel Europost  
Magnets for mounting, 4 x ø30 x 6 mm

### ACOUSTIC PROPERTIES

Frequency in Hz								
63	125	250	500	1000	2000	4000	Aw	
0,0	0,1	0,5	1,0	0,9	0,9	1,0	0,6	

Absorption Class C

Tested according to ISO 354:2003, ISO 25269:2013, ISO 11654:1997

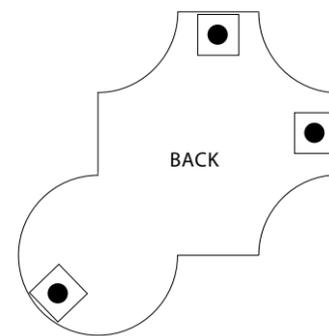
### FIRE TEST

Tested according to EN ISO 11925-2



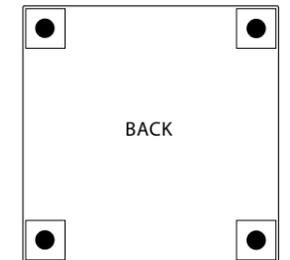
### MOUNTING

Magnets for mounting 3 pcs

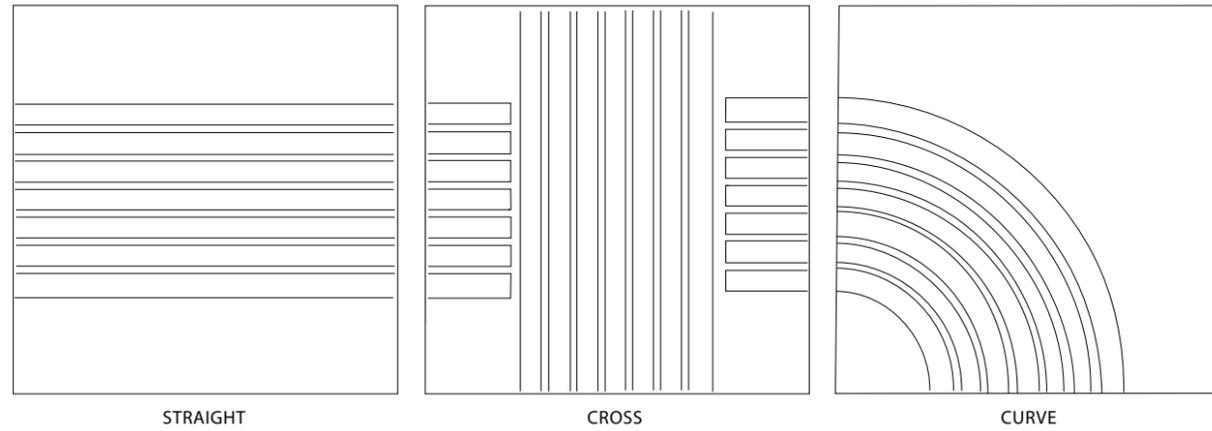


### MOUNTING

Magnets for mounting 4 pcs



## RACE WALL



HEIGHT 60,5 CM  
 WIDTH 60,5 CM  
 DEPTH 7,5 CM  
 WEIGHT 0,9 KG  
 AREA 0,36 M<sup>2</sup>  
 VOLUME 0,038 M<sup>3</sup>

**MATERIAL**  
 Polyester  
 Felt black / dark grey / light grey  
 Gabriel Europost  
 Magnets for mounting, 4 x ø30 x 6 mm

### ACOUSTIC PROPERTIES

Frequency in Hz							
63	125	250	500	1000	2000	4000	Aw
0,0	0,1	0,5	1,0	0,9	0,9	1,0	0,6

Absorption Class C

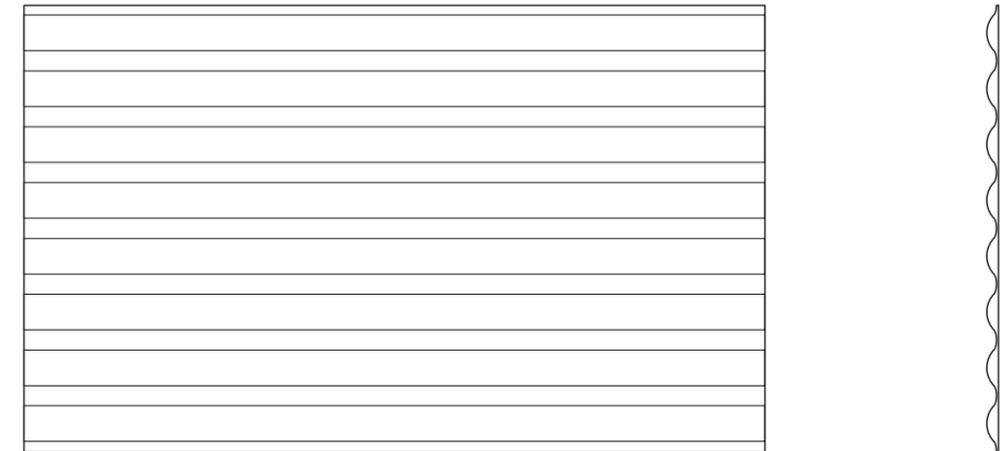
Tested according to ISO 354:2003, ISO 25269:2013, ISO 11654:1997

### FIRE TEST

Tested according to EN ISO 11925-2



## RIB WALL



HEIGHT 60 CM  
 WIDTH 100 CM  
 DEPTH 1,5 CM  
 WEIGHT 2,5 KG  
 AREA 0,6 M<sup>2</sup>  
 VOLUME 0,06 M<sup>3</sup>

**MATERIAL**  
 Polyester  
 Felt black / dark grey / light grey  
 Gabriel Europost  
 Magnets for mounting, 6 x ø30 x 6 mm

### ACOUSTIC PROPERTIES

Frequency in Hz							
63	125	250	500	1000	2000	4000	Aw
0,0	0,1	0,5	1,0	0,9	0,9	1,0	0,6

Absorption Class C

Tested according to ISO 354:2003, ISO 25269:2013, ISO 11654:1997

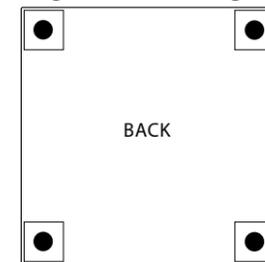
### FIRE TEST

Tested according to EN ISO 11925-2



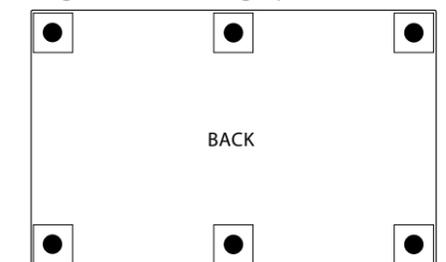
### MOUNTING

Magnets for mounting 4 pcs



### MOUNTING

Magnets for mounting 6 pcs





### **CAD/BIM**

Most of our products are downloadable as CAD/BIM objects for 3ds Max, Archicad, AutoCad 2D, DWG, AutoCad 3D, Material & Textures, Revit, SketchUp and pCon Planner.

### **pCon**

The perfect tool for managing everything from simple floor plans to the most complex 3D renderings, Thanks to pCon, producing customised solutions for your project has never been simpler. Powerful OFML data facilitates the entire configuration process from dimensions to the final price. Decibel by Johanson has many years' experience of preparing complete offers for our products.

If you are in need of any files in order to plan your design, please don't hesitate to contact us at Decibel.

# **SUSTAINABILITY – A KEY PART OF OUR CONCEPT**

Decibel by Johanson is tireless in its efforts to create new possibilities and improve the qualities of its products from a sustainability perspective. We place great emphasis on ethical, sustainable production and good working conditions, both in our own facilities and those of our suppliers.

### **CUS ON ALL COMPONENTS**

For all products bearing the Ecophon Inside label our partner and supplier is Ecophon, a company that takes sustainability very seriously and is able to account for the materials' environmental impact. More than 70 percent of the sound-absorbing glass wool core is made from recycled glass. (In a process that is unique in the world, glass bottles deposited in recycling stations in Sweden are recycled as sound absorbers.)

Ecophon was the first in the market to offer a product range made with a plant-based binder, saving the equivalent of 24,000 barrels of crude oil per year. Ecophon products also have a number of third-party certificates that ensure a healthy indoor environment. The production plant in Hyllinge in the south of Sweden

is powered by electricity from 100% renewable sources.

All our design panels are made of pressed polyester felt from recycled PET bottles.

### **COVERINGS**

The fabrics used in our sound absorbers are carefully selected and tested by the manufacturers in accordance with relevant standards.

Decibel aims to ensure that none of the properties of the various components are altered or compromised in any way.

### **MÖBELFAKTA**

The majority of our products meet strict Möbel fakta criteria. This comprehensive and updated reference and labelling system is synonymous with professionalism and quality throughout the entire value chain, all the way to the end user. The system is based on three areas of requirements:

- Quality
- Environment
- Social responsibility

## **DECIBEL BY JOHANSON – SOUND ABSORBERS THAT MAKE A CLEAR DIFFERENCE**

Our products are developed not only with people's ears in mind – they are designed to have eye-appeal as well. We want our sound absorbers to be as attractive to look at as they are effective in creating a pleasant acoustic environment. The visual design and acoustic properties work together to produce the kind of truly harmonious setting that helps promote a sense of well-being and improves productivity.

**DECIBEL**  
*by* **JOHANSON**

[www.decibelab.se](http://www.decibelab.se)