



HUSH story began with a simple idea: improve the acoustic properties & style of every interior.

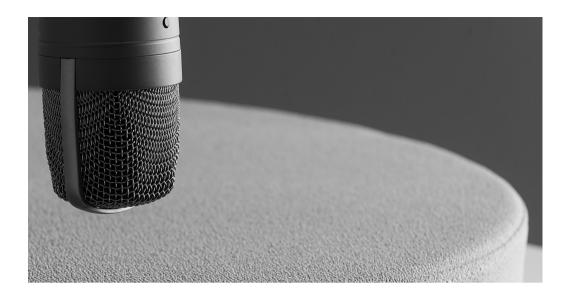
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# The art of silence.

Sound has always been with us. Yet, with the technological and economic development, more and more sources of unwanted noise disturb our daily lives. The latest trend in design - large open spaces – fosters collaboration, but also creates sub-optimal acoustic environment. An environment where all background noises of conversations, ringtones or printers subconsciously distract us.

HUSH offers acoustic panels that reduce unwanted noise in all types of interiors. We make sure our products are simple, adaptable and of high quality. Following our motto – **the art of silence** – we are here to marry noise reduction with timeless, sustainable design.



Together with experts in the field of acoustics, we develop products that meet the highest standards in absorbing and blocking unwanted noise.

Our screens and panels are tested in professional acoustic laboratories according to international norms: EN ISO 354, EN ISO 11654 and EN ISO 10053.



From the best performing melamine foam to recyclable and fire-resistant fabrics, we carefully select the finest materials for our panels.

Our production process provides the precision of the most innovative machines combined with a handcrafted finish.

#### **Our Designers**

We believe great performance and quality need to go hand in hand with style. To transform technical products into works of art, we collaborate with renowned designers. Our pure lines suit all environments where we work and socialize.





Paul and Kate Brooks are English Designers living in France and working together from their studio in Germany. Both studied design in London - Paul at the Royal College of Art and Kate at St Martin's College. They design products with a quiet clarity and an artful twist for clients in Europe and North America. Their designs have gained international recognition with awards from organisations such as IF, Good Design Award, Red Dot and Neocon.

Jakub Sobiepanek is a Polish Designer working in his studio in Warsaw. He graduated with honors from the Academy of Fine Arts in Warsaw. His master thesis about bringing back to life the icons of Polish design, was awarded the best thesis of 2012. Apart from the design work, Jakub is also the creative director of Vzór – a Polish furniture brand, producer of the iconic RM58 chair (www.vzor.com).

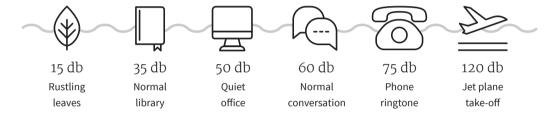
#### **About Sound**

# What is sound?

Sound can be described as pressure vawes fluctuating in the air. We hear sound when air pressure variations are transmitted to our ears and further transfered as nerve signals to our brains. Sound level is measured in Decibels (dB), and sound frequency in Hertz (Hz).

# What is noise?

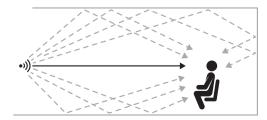
Noise is unwanted sound, for example background conversations, alarms and ringtones, electrical applicances or traffic noise.



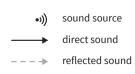
#### Reverberation time.

Reverberation Time (RT) is one of the most important terms in acoustics, because it shows how quickly sound/noise decreases after the sound source stops. The higher the RT, the bigger the "echo" effect in a room. Sound waves which "meet" hard surfaces like glass, bare floors or concrete are continuously reflected, creating an annoying background noise. It makes it very difficult to focus, listen and talk in comfort. A reverberation time that is too long in relation to the size and function of the room is the main cause of a poor acoustic environment.

A balanced acoustic environment always depends on the purpose of the room. In a restaurant, a good acoustic environment may allow a certain degree of background noise as an element of social interaction. In an office however, background noise of colleagues chatting while we try to focus on our work, is clearly unwanted. In spaces with poor acoustic environment it is crucial to optimize the RT to a desirable level by installing properly designed sound absorbing products. HUSH products have been tested in professional reverberation chambers in accordance with the international standards EN ISO 354 and EN ISO 11654.



Reverberation. Multiple sound reflections.



# Absorption & Attenuation.

An ideal combination of sound absorption and sound attenuation can drastically improve acoustic comfort in any space. Sound absorption reduces unwanted noise and sound attenuation blocks it from travelling between spaces. HUSH products have been designed and tested to create a pleasant acoustic environment in your room.

# Absorption.



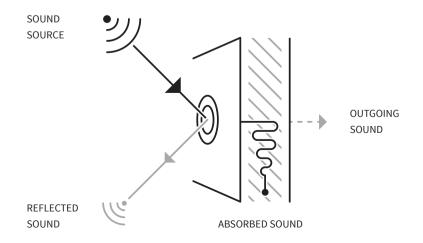
Sound absorption shows the ability to stop the sound wave that hits the surface and transform it into an unnoticable heat energy. Sound absorbers improve room acoustics by eliminating sound reflections and reducing the reverberation time. Absorption is measured according to EN ISO 354 and can be expressed as:

- Sound absorption coefficient α. α ranges from 0 (total reflection) to 1 (total absorption).
   Weighted αw results can be further classified into a specific sound absorption class, between
   A and E, where A means the highest sound absorption. This measure is used for sound absorbing elements covering surface of min. 10 m² on the wall or ceiling.
- Equivalent sound absorption area Am<sup>2</sup> compares the area of product analyzed to a perfect sound absorber. One Am<sup>2</sup> is equal to one square meter of full absorbtion. It is recommended to use this measure, rather than sound absorption class, for any single free-standing or desk acoustic screens.

#### Attenuation.



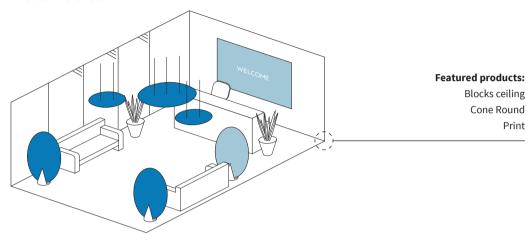
Sound attenuation shows the ability to reduce transmission of sound/noise through a screen. Screens with good attenuation play a role of sound shields between one space and another. Sound attenuation is measured according to EN ISO 10053 and is expressed as sound level decrease in dB thanks to blocking properties of an acoustic screen.



#### **Design for Silence**

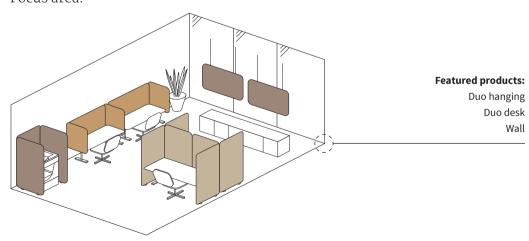
Our day in the office requires constant switching between focusing on individual tasks and team work, where we often disturb each other in all parts of the office. Scientific research shows that continuous noise at work results in distraction, stress and may increase the rate of errors, burn-outs and even sick leaves. It is therefore crucial to aim for a balanced acoustic environment while designing all spaces in our offices.

# Welcome area.



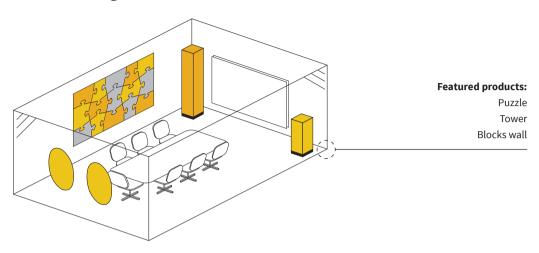
Reception is usually a vast space with high ceilings and hard, reflecting surfaces on the ground and walls. Reception area is the showcase of your company, where guests should feel comfortable communicating with the reception staff or waiting for their meeting. Wall and ceiling panels with a high degree of sound absorption will create a more pleasant environment.

# Focus area.



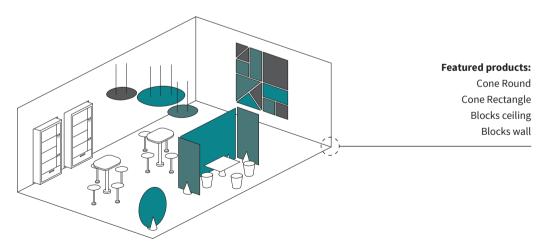
We spend most of our working day at the desk, surrounded by co-workers, where we perform multiple tasks requiring high level of focus. In an open-space office, we should minimize speech and other background noises from spreading between workstations, by installing screens with great sound attenuation properties.

# Formal meetings.

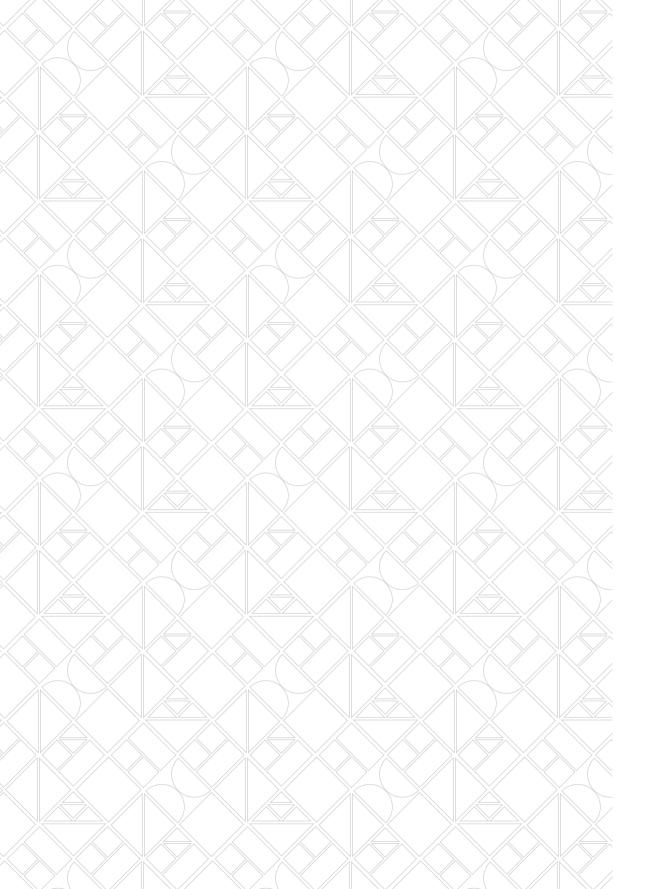


Meeting rooms very often have one or two glass walls, and a whiteboard. These materials increase reverberation time and decrease speech clarity, which makes it very difficult to communicate with people in the room and on the phone. In these spaces it is recommended to use sound absorbing products on the wall and ceiling, or free-standing absorbers in case walls are occupied.

# Informal meetings.



In contemporary offices people tend to meet "over a coffee" in informal spaces, like breakout areas or kitchens. These are usually large spaces with a lot of background noise of people talking or walking by. In these spaces it is important to decrease the level of noise to allow clear conversations, but also separate this area to stop the noise from propagating to working areas.





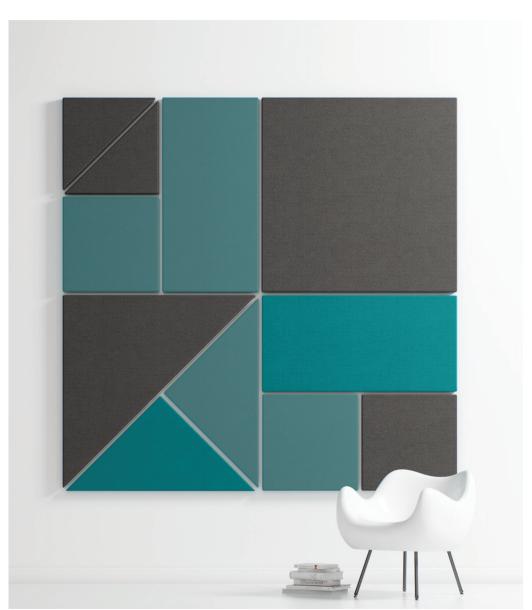




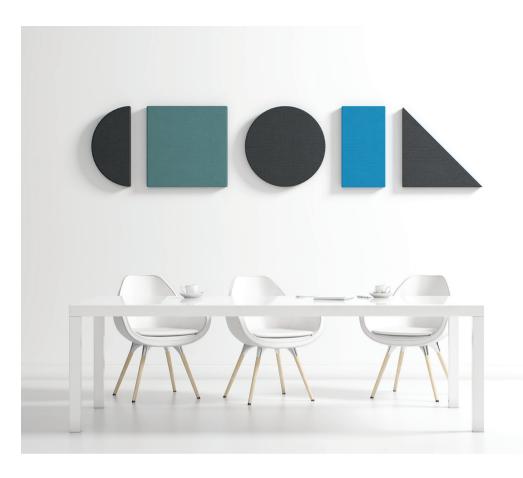
Hanging panels

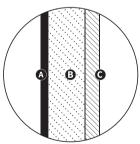


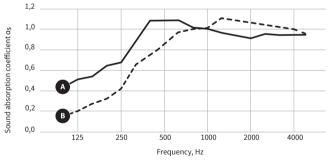




Blocks is an incredibly versatile family of acoustic wall and ceiling panels. Five classic shapes in various sizes and two thickness options offer endless configuration possibilities. With Blocks you can keep it calm and make a simple repeat pattern, or let your imagination run free to create a complex piece of "art".







- A Fabric
- B Basotect® melamine foam
- C HDF board

 $\alpha w = 1.00 \text{ (class A)}$ 

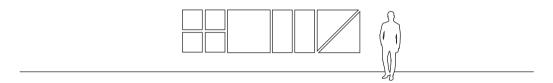
A - 55mm Blocks panels B - 35mm Blocks panels  $\alpha w = 0.75 \text{ (class } \mathbf{C})$ 

Blocks panels are made of ultra absorbing melamine foam and a thin HDF board, and are upholstered in fabric of your choice. Blocks are light and easy to install on all walls and ceilings.

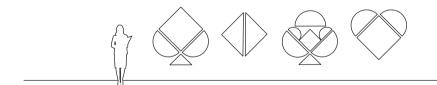
The Blocks range has been developed together with an experienced acoustics laboratory. It has been certified according to EN ISO 354 as class A absorber (55mm panels) and class C absorber (35mm panels), absorbing 100% and 75% of unwanted noise respectively.

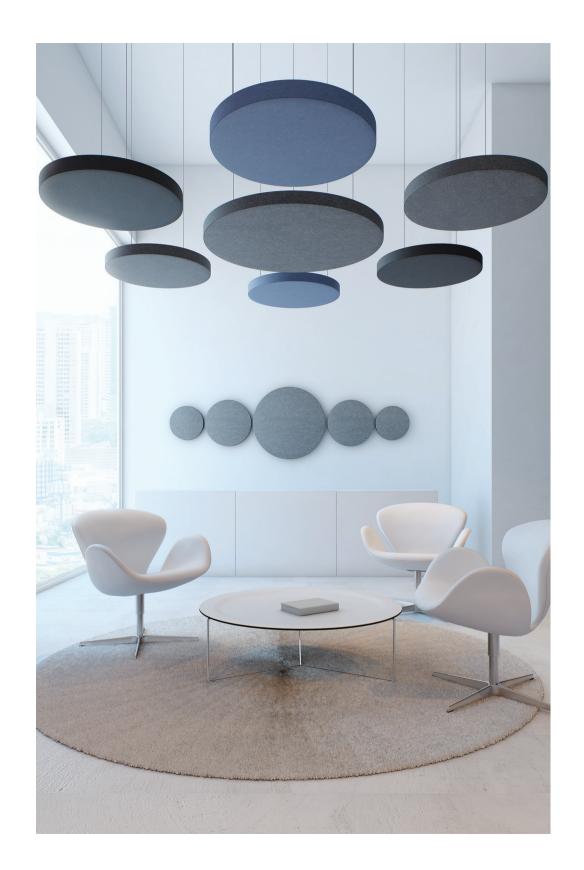
# Let your **imagination** run free.

Example of Blocks panels configurations



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# **Blocks.** Configure your product.

HUSH

Choose your order specifics











Shape







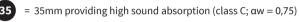




Size W x H [mm] 600 x 600 900 x 900 1200 x 1200  $\begin{array}{ccc} 600 \times 600 & 600 \times 300 \\ 636 \times 636^* & 900 \times 300 \\ 848 \times 848^{**} & 900 \times 450 \\ 900 \times 900 & 900 \times 600 \\ 1200 \times 1200 & 1200 \times 600 \end{array}$ 

Ø 600 Ø 900 Ø 1200 Ø 600 Ø 900 Ø 1200

#### Thickness [mm]



55 = 55mm providing ultra high sound absorption (class A; αw = 1,00)

# **Fixing systems**





Click button connectors for wall mounting





 $\label{lem:magnets} \mbox{Magnets for wall mounting (recommended for thick walls)}$ 





Wire system for ceiling mounting





Dual lock fasteners for back of furniture or glass

# Fabrics

Available in all our standard fabrics (details on p. 46 or www.hushdesign.pl).

# Finish type [optional]



Option of mixing 2 colours of the same fabric on front and sides of the panel.

How to order: EV2 / EV4 (EV2 = front; EV4= sides) EV4 (EV4 = front & sides)

Order example

BLOCKS - 01 - 600 x 600 - 55 - B - EV2 / EV4 BLOCKS - 04 - 900 - 35 - C - EV9

the art of silence

<sup>\*</sup> ½ of 900 x 900 triangle

<sup>\*\*</sup> ½ of 1200 x 1200 triangle





Design Paul & Kate Brooks

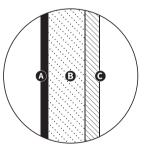


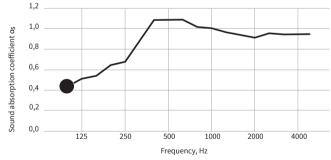


Puzzle is a range of acoustic wall panels inspired by the classic jig-saw shape. The design offers a series of five puzzle pieces. By combining these elements you can

build infinite tableau structures or link random pieces in free style. Stylish, fun and reassuringly familiar.







- A Fabric
- B Basotect® melamine foam
- C HDF board

- 55mm Puzzle panels  $\alpha w = 1.00 \text{ (class A)}$ 

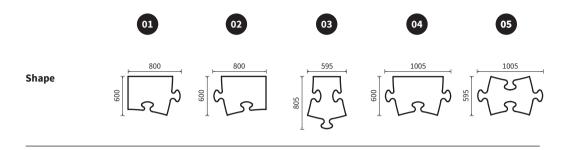
The core of Puzzle panels is made of melamine foam, which has outstanding sound absorbing properties. Puzzle panels are thoroughly sewn and upholstered in fabric of your choice.

Puzzle panels are certified according to EN ISO 354 as class A sound absorbers, absorbing 100% of unwanted noise. They can be used on walls of reception halls, restaurants, canteens or any other spaces needing reduction of reverberation time.

# **Puzzle.** Configure your product.

Choose your order specifics





Size W x H [mm]

800 x 600

800 x 600

595 x 805

1005 x 600

1005 x 595

Thickness [mm]

55mm providing ultra high sound absorption (class A;  $\alpha w = 1,00$ )

**Fixing systems** 





Click button connectors for wall mounting





Magnets for wall mounting (recommended for thick walls)





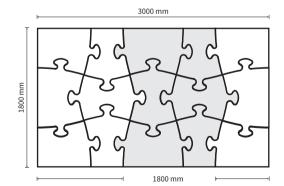
Dual lock fasteners for wall and glass mounting

**Fabrics** 

Available in all our standard fabrics (details on p. 46 or www.hushdesign.pl).

#### Order example

2x PUZZLE - 01 - B - SY13 2x PUZZLE – 02 – B - SY13 4x PUZZLE - 03 - B - SY13 4x PUZZLE - 04 - B - SY13 3x PUZZLE - 05 - B - SY13



**Example configurations:** 9 panels - 1800 x 1800mm 15 panels - 3000 x 1800mm 25 panels - 3000 x 3000mm

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Duo

Design Paul & Kate Brooks



Standing screens

Hanging screens

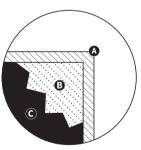


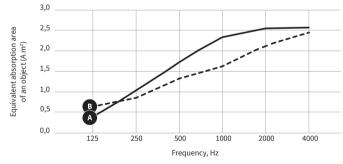


Duo is a range of two-sided acoustic screens. They offer a perfect solution for absorbing unwanted noise in a simple, enduring form. Pure rectangular panels

with rounded corners suit every type of interior. Duo can be used as desk-up screens, free-standing screens or hanging panels.







A - Duo 1000x1600mm

(Basotect foam)

- A Wooden frame
- **B** Basotect® melamine foam or Polyurethane foam
- C Fabric

Duo screens are made of a solid wooden frame covered in fabric. Duo is available with two types of acoustic filling: Basotect melamine foam or an opencell polyurethane foam. Attach it to your desk, hang it from the ceiling or use one of our four metal connectors to create free-standing structures.

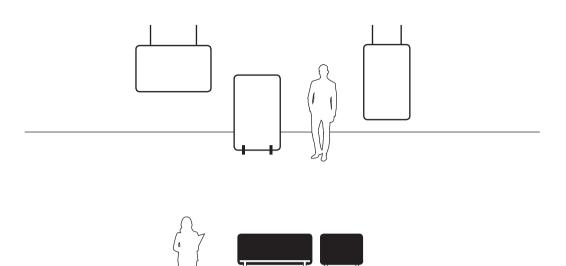
Duo has been tested and certified in a professional reverberation chamber according to EN ISO 354. You can choose one of two types of acoustic filling depending on your sound absorption needs. Poluyrethane foam offers very good, while Basotect foam offers extraordinary sound absorption results.

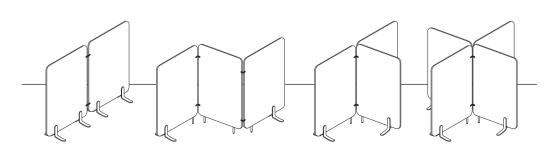
**B** - Duo 1000x1600mm

(Polyurethane foam)

# One panel. Multiple installation systems.

Free-standing, hanging, desk-up screens

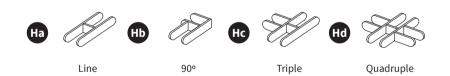




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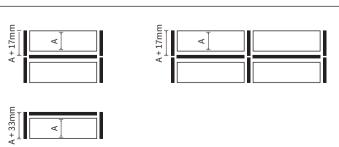


#### Connectors for standing screens



Systems Ha, Hb, Hc, Hd available in: white (1), black (2), silver (3).

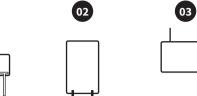
# Configurations of desk panels



# **Duo.** Configure your product.

Choose your order specifics

Type







HUSH

		لهــها		
	Desk	Standing	Hanging horizontal	Hanging vertical
Size W x H [mm]	600 x 500   650 617 x 500   650 633 x 500   650 800 x 500   650 817 x 500   650 817 x 500   650 1000 x 500   650 1200 x 500   650 1400 x 500   650 1600 x 500   650 1800 x 500   650 2000 x 500   650	600 x 1200 600 x 1400 600 x 1600 600 x 1800 800 x 1200 800 x 1400 800 x 1600 800 x 1800 1000 x 1200 1000 x 1400 1000 x 1600 1000 x 1800	1400 x 650 1600 x 650 1800 x 650 1400 x 800 1600 x 800 1800 x 800 1400 x 1000 1600 x 1000 1800 x 1000 1400 x 1200 1600 x 1200 1800 x 1200	650 x 1400 650 x 1600 650 x 1800 800 x 1400 800 x 1600 800 x 1800 1000 x 1400 1000 x 1600 1000 x 1400 1200 x 1400 1200 x 1400
	Height above desk: 500 mm	1200 x 1200 1200 x 1400 1200 x 1600 1200 x 1800		

# Fixing system









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Ceiling system



Desk mount (long)\*







Ceiling to floor system Ceiling to floor system





Clamp\*

Top clamp\*\*



\*For Duo with 650mm height (height above desk = 500mm)

\*\*For Duo with 500mm height (height above desk = 500mm)

Top double clamp\*\*

Systems La, Lb, Ma, Mb, Mc, Ka, Kb available in: white (1), black (2), silver (3). Systems Kc, P, Q available in: silver.

Fabrics	Available in all our standard fabrics (details on p. 46 or www.hushdesign.pl).
Order example	DUO – 01 – 1200x650 – Lb2 – EV11





Design **HUSH** 

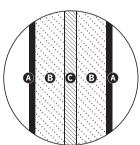


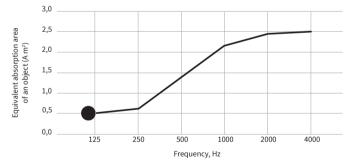




Wall is a free-standing screen merging extremely high sound attenuation and sound absorption properties. Its simple design makes it a good fit for all types of open-space offices. Wall can be used as a single screen or as several screens put together with our metal connectors.







- A Fabric
- **B** Basotect® melamine foam
- **C** MDF board partition

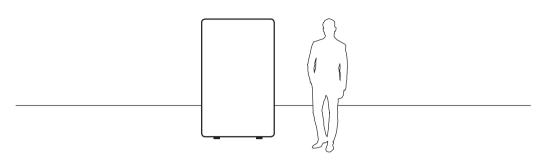
Wall is made of two layers of Basotect melamine foam glued on both sides of MDF board, closed in a wooden frame. Melamine foam is one of the best sound absorbers, whereas MDF board is responsible for high level of sound attenuation. The wooden frame upholstered in fabric gives the panels its perfect edges.

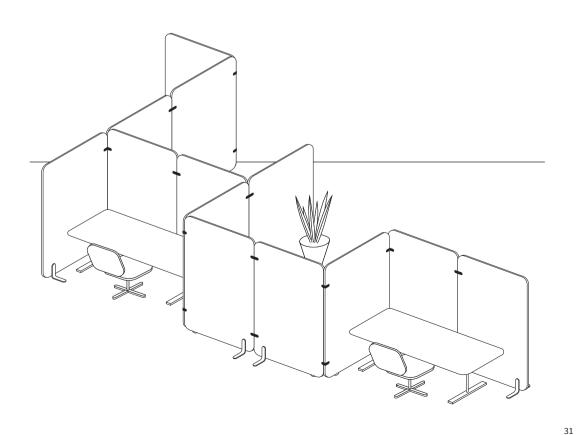
# - Wall 1000x1600mm (Basotect foam)

Wall's primary function, sound attenuation, has been certified according to EN ISO 10053. The results are extraordinary, with average sound attenuation of **15db**. On top of that, Wall is certified as a very good sound absorber according to EN ISO 354. Both results make it one of the best products on the market combining sound attenuation and sound absorption properties.

# Universal solution for sound absorption and attenuation.

Example of Wall screens configurations







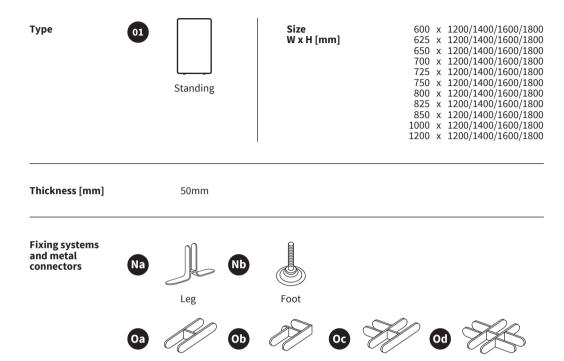


# **Wall.** Configure your product.

Choose your order specifics



Quadruple



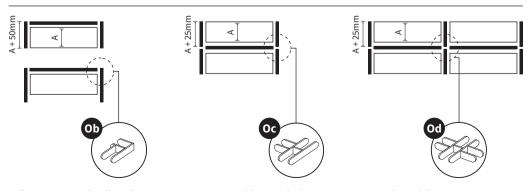
90°

Triple

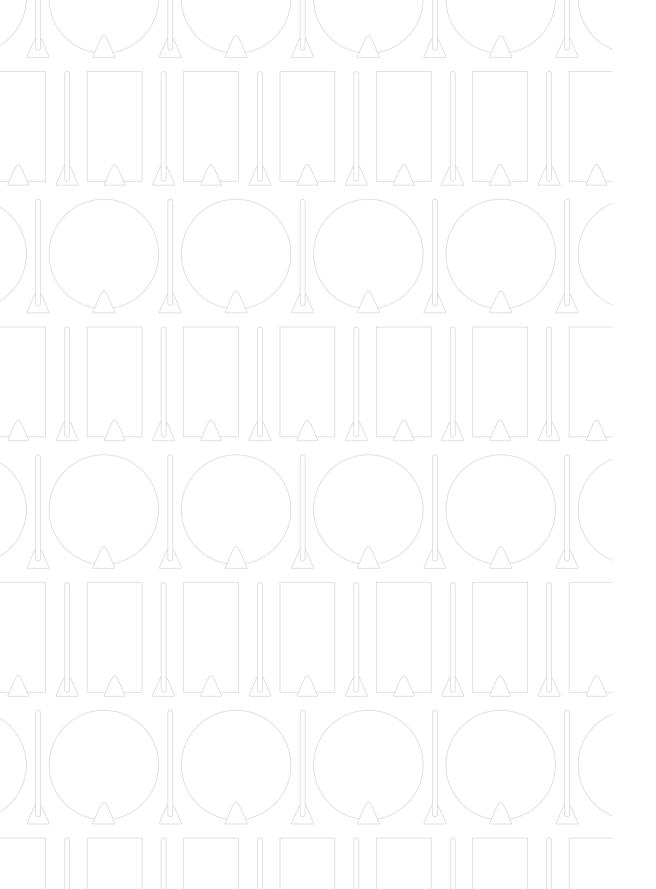
Systems Na, Oa, Ob, Oc, Od available in: white (1), black (2), silver (3). Nb available in: silver.

**Fabrics** Available in all our standard fabrics (details on p. 46 or www.hushdesign.pl).

Order example WALL - 01 - 800x1600 - Na2 - SY6 WALL - 01 - 725x1400 - Nb - SN14



Call-center type of Wall configurations may require additional desk mounting systems for stability.





Standing screens

Available as of **Q1 2017** 



Design Jakub Sobiepanek



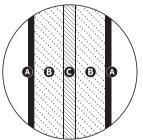




Cone is a great solution for sound absorption and sound attenuation with a designer's touch. This acoustic screen is available in two forms: round

and rectangle. Both shapes of the screen share the same type of wooden stand which will add character to any office, hotel or restaurant space.





A - Fabric

**B** - Basotect® melamine foam

C - MDF board partition

Cone consists of two layers of Basotect melamine foam, which gives the panel its high sound absorption properties, and an MDF board in the middle responsible for blocking unwanted noise. Thanks to its construction, Cone is relatively light for its acoustic properties.

Cone cannot be mistaken for any other product thanks to the original design of its wooden stand. It is a great addition to any open-space office, reception hall, coffee area or any other space where you would like to combine style with great acoustic properties.

# **Cone.** Configure your product.

Choose your order specifics











Round

Rectangle

Size W x H [mm]

Shape

Ø 1200 Ø 1500 800 x 1600 1000 x 1600

Thickness [mm]

50mm

#### **Fixing systems**





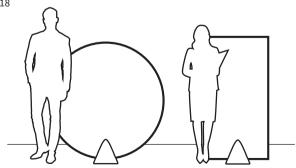
Wooden stand

#### **Fabrics**

Available in all our standard fabrics (details on p. 46 or www.hushdesign.pl). Cone Round 1500mm available only in Evo, Synergy 170 or any other fabric with min. 1700mm width on special request.

# Order example

CONE - 01 - 1500 - EV20 CONE - 02 - 800x1600 - SY18



the art of silence



# **Tower**

Design **HUSH** 

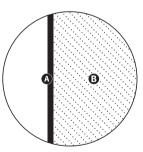


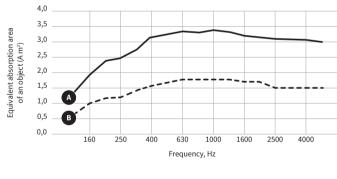


Tower is a highly effective free-standing acoustic absorber. Its acoustic properties allow you to reduce the number of other absorbers to achieve a balanced

acoustic environment. Tower is extremely light and easy to rearrange. Its "grandness" is a perfect design addition to any conference room or open-space office.







- Tower 2m

 $\alpha w = 1.00 \text{ (class A)}$ 

- A Fabric
- B Basotect® melamine foam

lightweight aluminium.

Tower has a simple, yet ingenious construction.

It's made from a specialistic melamine foam,

upholstered in fabric of your choice. To enhance stability and protect from damage, it has a stand in

Thanks to a very high accumulation of sound absorbing material, Tower has unprecedented sound absorbing results. It is certified as class A absorber. Use it on its own or combine it with HUSH wall or ceiling panels to create a pleasant acoustic environment in any room.

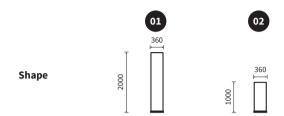
- Tower 1m

 $\alpha w = 1.00 \text{ (class A)}$ 

**Tower.** Configure your product.

Choose your order specifics





Size W x D x H [mm]

360 x 360 x 2000

360 x 360 x 1000

Stand

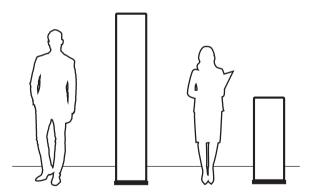
Thin stand in lightweight aluminium protecting the product from damage. Stand available in white **(\$1)**, black **(\$2)**, silver **(\$3)**.

**Fabrics** 

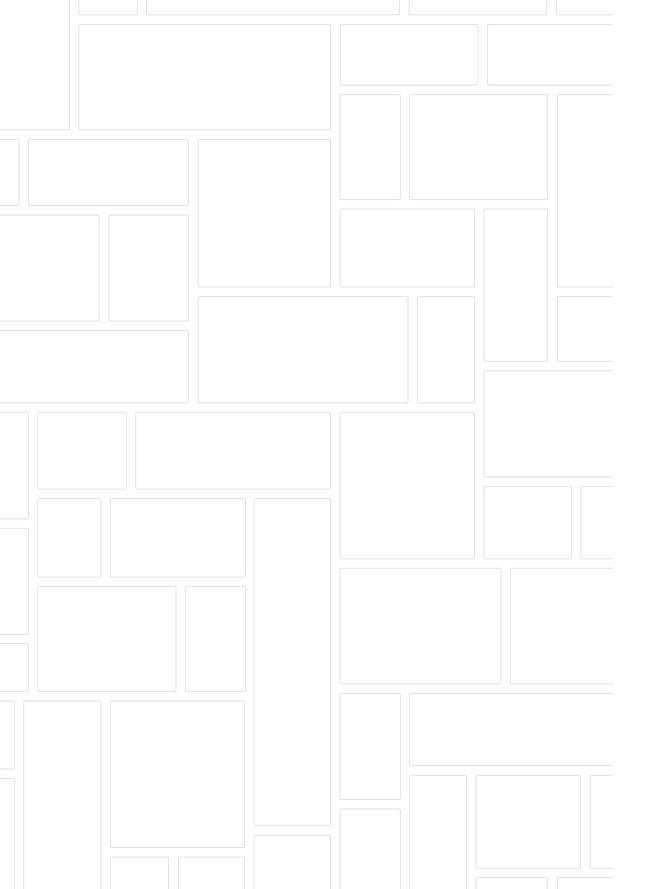
Available in Evo, Sprint, Synergy 170 (details on p. 46 or www.hushdesign.pl). Other fabrics with min. 1500mm width available on special request.

#### Order example

TOWER - 01 - S2 - SN15 TOWER - 02 - S3 - EV14



the art of silence







Design **HUSH** 

(1)

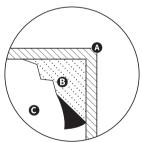
# Available as of **Q1 2017**



Print is a wall acoustic panel with a personalized image printed on fabric. Now you can both improve acoustic comfort and decorate your

conference room, canteen or reception hall with a printed image of your choice.





A - Aluminium profile

**B** - Basotect® melamine foam

**C** - Customized print on fabric

Print is made of a carefully selected melamine foam, which has outstanding sound absorbing properties. The foam is inserted into an aluminium profile and covered with an image of your choice, printed on a thin fabric.

Print's durable aluminium frame has been designed specifically for HUSH. It allows you to replace the fabric on the panel without taking it off the wall. Choose your image and size of our Print panel to decrease reverberation time in your room.

# **Print.** Configure your product.

Choose your order specifics





Shape



Size W x H [mm] max. 2200mm x max. 3000mm

Thickness [mm]

53mm

**Fixing systems** 



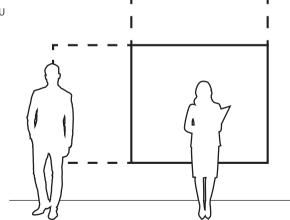
Metal rail for wall mouting

**Fabrics** 

White fabric with personalized image printed on it.

# Order example

PRINT - 01 - 600x1800 - U PRINT - 01 - 2000x2500 - U



the art of silence

# **Standard Fabrics**

Price Group 1

EVO

Weight: 300g/m² Composition: 100% Polyester Flammability: BS EN 1021-1 / BS EN 1021-2



Price Group 2

**SPRINT** by Camira

Weight: 328g/m<sup>2</sup> Composition: 100% Polyester Flammability: BS EN 1021-1 / BS EN 1021-2



Price Group 2

XTREME by Camira

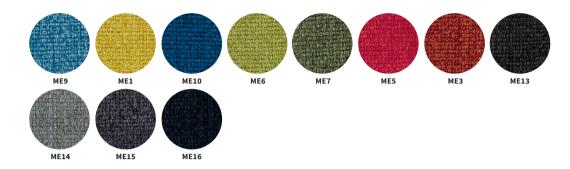
Weight: 310g/m² Composition: 100% Recycled Polyester Flammability: DIN4102-1 B1



Price Group 2

**MEDLEY** by Gabriel

Weight: 364g/m² Composition: 100% Polyester Flammability: BS EN 1021-1 / BS EN 1021-2



Price Group 3

**SYNERGY** by Camira

Weight: 400g/m² Composition: 95% Wool, 5% polyamide Flammability: PN EN 1021-1 / PN EN 1021-2



Price Group 3

SYNERGY 170 by Camira

Weight: 400g/m² Composition: 95% Wool, 5% polyamide Flammability: PN EN 1021-1 / PN EN 1021-2



Synergy 170 fabric is intended only for products: Tower and Cone 01 1500mm. Lead time in Synergy 170 may be longer than our standard lead times.

Colors presented in the catalogue may vary from the original colors of fabrics.

# **Fixing systems**

# Blocks











W: 25 T: 8



H: max. 2000



T: 6

Puzzle





W: 25 T: 10



W: 25 T: 8



T: 6

Duo





W: 50 H: 65

W: 450 H:255<sup>2</sup>



W: 120 H: 65





W: 50 H: 701



W: 20<sup>2</sup>







H: max. 2000

W: 50 H: 701

H: max. 3000

W: 1001

<sup>1</sup> max. tabletop thickness = 50mm <sup>2</sup> panel mounted 90mm above floor <sup>3</sup> panel mounted 10-30mm above floor

Wall





W: 450 H: 1754

All measures in mm.



W: 40<sup>5</sup>

- 4 panel mounted 15mm above floor
- <sup>5</sup> panel mounted 10-30mm above floor

Cone



W: 300 H: 3006

- <sup>6</sup> panel mounted 65mm above floor
- W width
- H height
- T thickness / distance from wall

