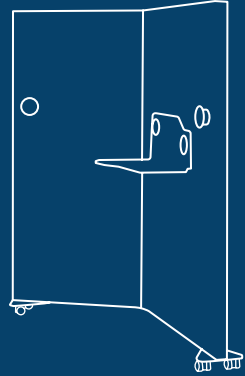
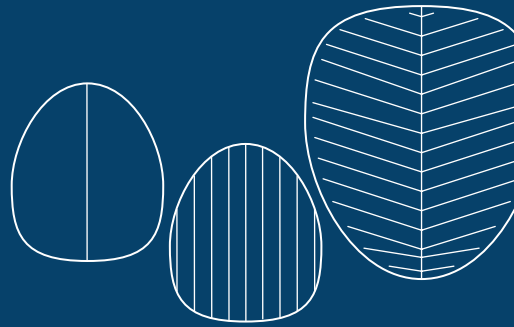
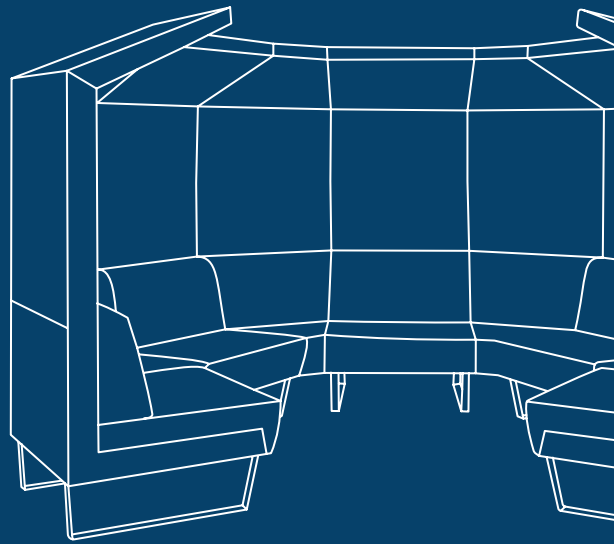




ACOUSTICS





Mission statement

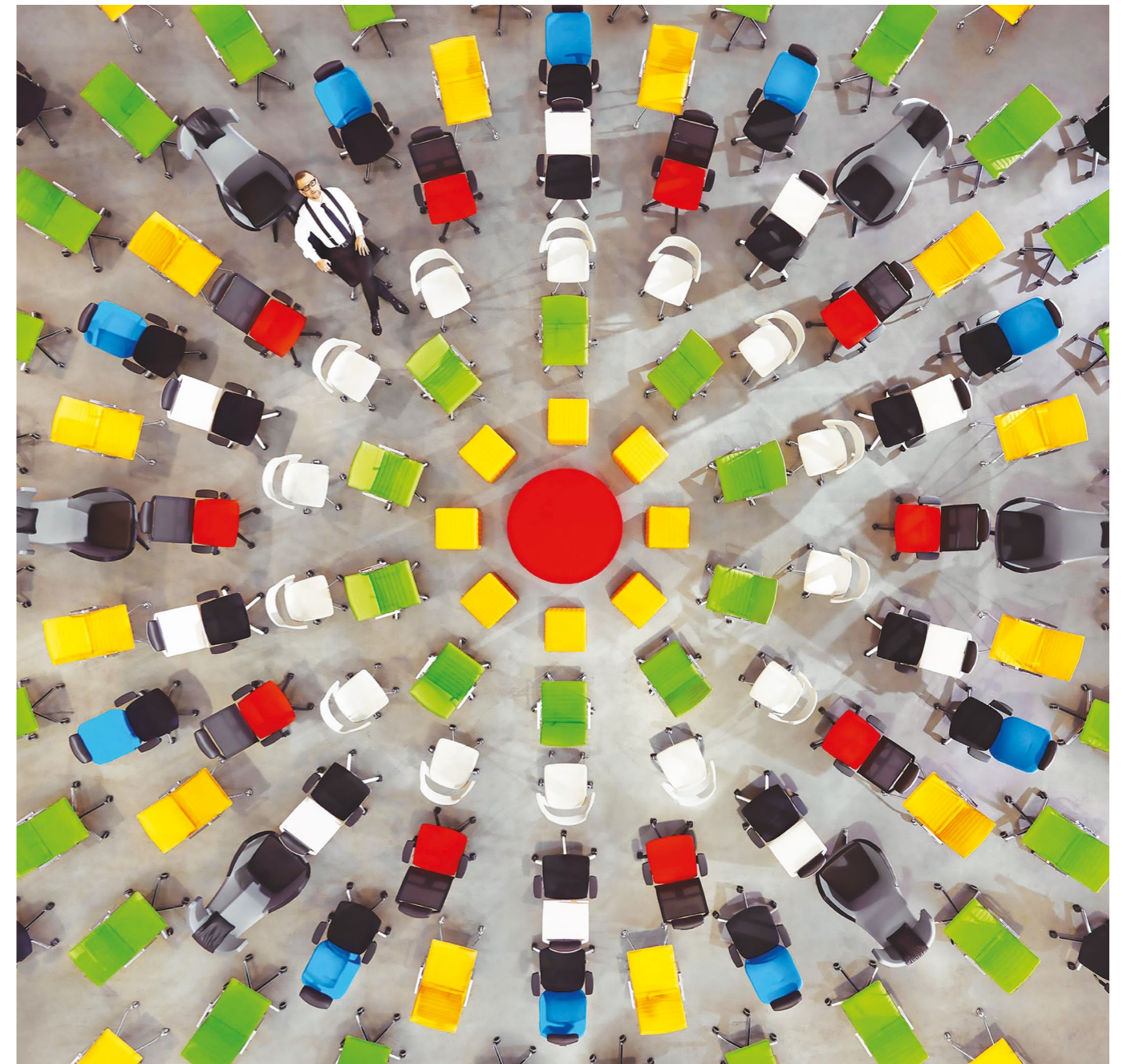
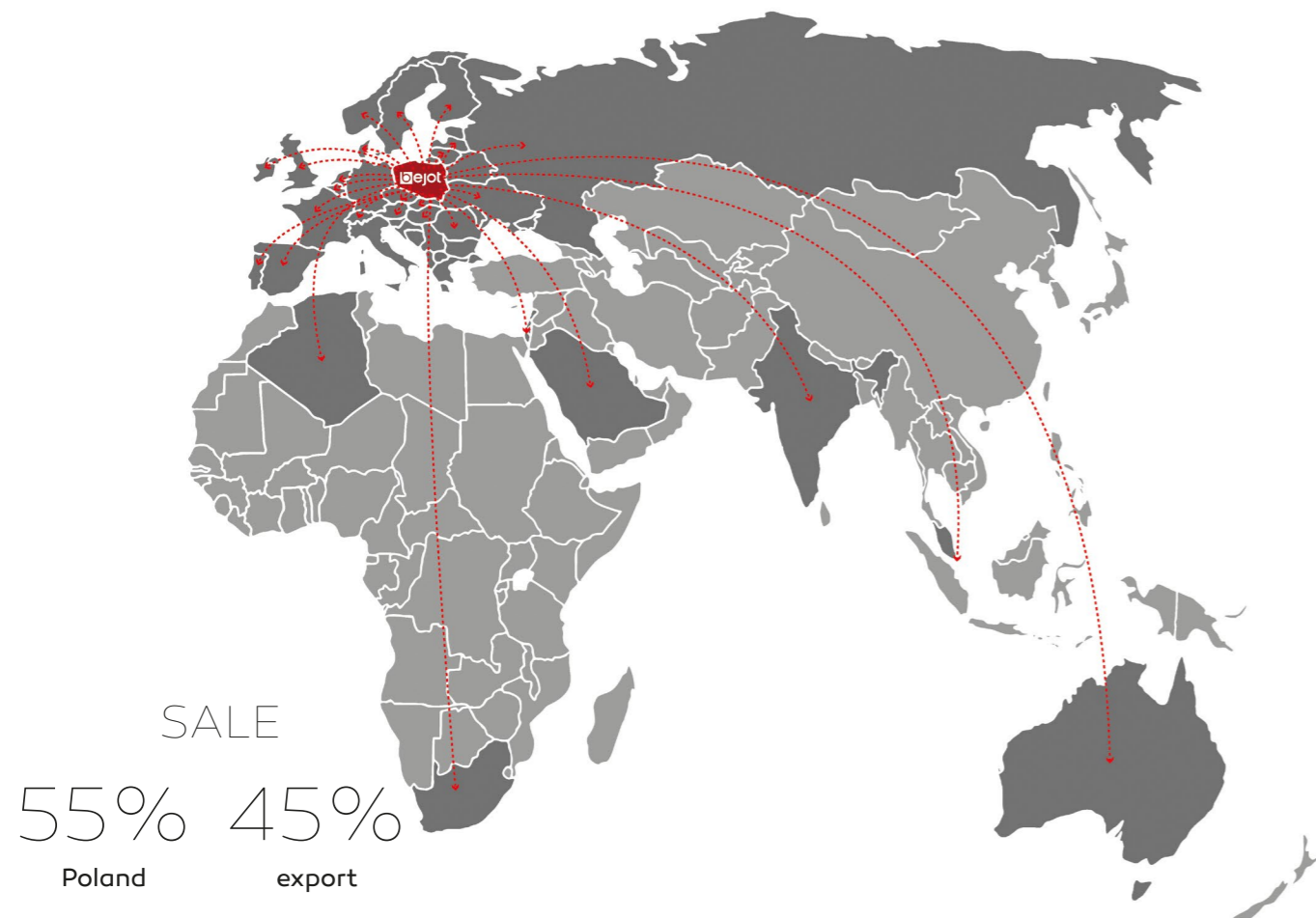
Bejot is a company, where the human being is put first above all. His needs, comfort and feeling of aesthetics are for us priorities. We want to be a partaker and an initiator of changes unfolding within the current work conception model as well as an evolution in the field of creation of human friendly spaces for learning, work and some rest.

Our mission is to bring the relations between the human being and the space together and to bring about a harmonious relation between these two things. Nevertheless, we attach a great importance to capturing the beauty in everyday objects which establishes a kind of dialog between the pure form and the functionality.

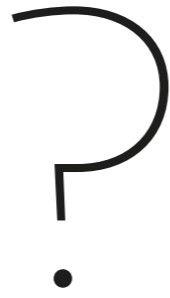
30	220	20 000	10 000m ²
years of experience	over employees	products monthly	office and production space

Who we are?

We are a family-run production company that, through the idea, enthusiasm and work of the entire team, has transformed from small carpentry into a office furniture and acoustic solutions manufacturer. We create products in cooperation with creative designers and through rigorous selection of each element of our products to guarantee your satisfaction and comfort even during long hours of use.



What is with the acoustics

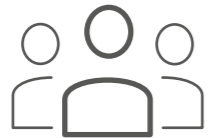


Every day we think about, how to make the interior more pleasant for you, that's why a few years ago, as a Bejot company, **we took part in a research consortium on acoustic properties of materials** which eliminate noise in workplaces. This allowed us to get to know the issue of acoustics, create and improve products that **support the improvement of interior acoustics** not only in offices, but also in public spaces and HoReCa. With us, learn more about acoustics and solutions that will help us solve your acoustic problem.

Sound sources



20 dB¹
200 µPa
whisper



60 dB¹
20 000 µPa
office



80 dB¹
200 000 µPa
busy street



120 dB¹
20 000 000 µPa
jet aircraft

How noise affects us?

67%

Decrease in work accuracy².

>40%

Employees are not able to fully perform their work².

64%

Employees feel discomfort due to noise caused by calls and telephones².

30%

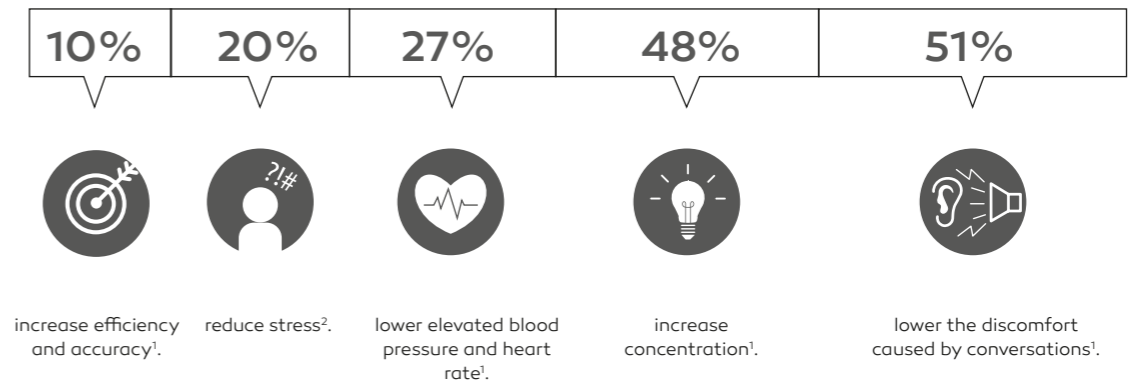
Decrease in employee productivity².

¹ FIS, *The guide to office acoustic*, ISBN 978-0-9565341-1-8, 2015

² Evidence Space, *Improving employee productivity by reducing noise*, British Gypsum, Coventry, 2015

The sound of silence

What good acoustics can change?



Costs of bad acoustics

The cost of a highly qualified employee on the employer's side

5 000 € / month

Decrease in productivity due to poor acoustic conditions

30%

5 000 € x 30% ≈

1 500 € loss / month

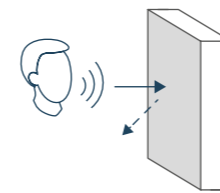
1 500 € x 12 months ≈

18 000 € loss / year

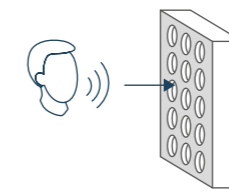
20 employees x 18 000 € ≈

360 000 € loss / year

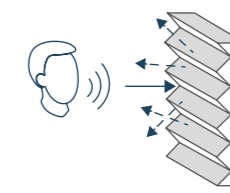
Basic acoustic phenomena



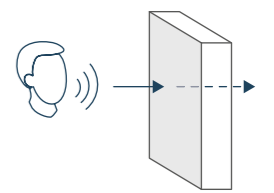
Reflection



Absorption



Diffusion



Penetration

¹ Evidence Space, *Improving employee productivity by reducing noise*, British Gypsum, Coventry, 2015

² Cowan, *The Effect of sound people*, Wiley, Chichester, 2016, 93-95

Choose **the best solution**

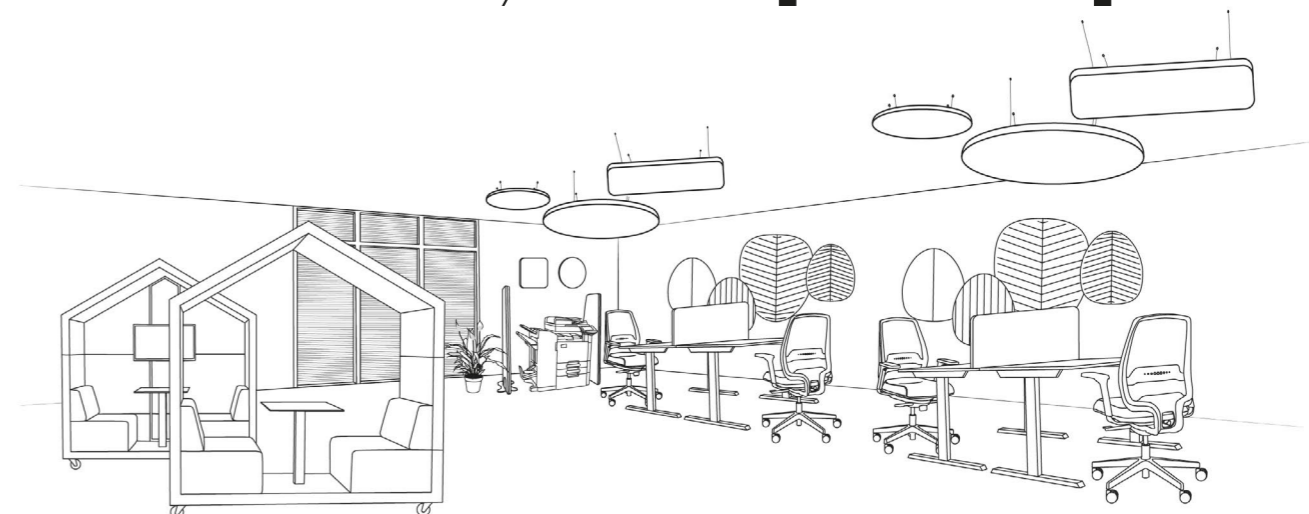
Classification of sound absorbing products – is based on the value of the sound absorption coefficient α_w according to EN ISO 11654. Materials and acoustic products are **classified in 5 classes** marked from A to E. **Class A means the highest sound-absorbing properties** and products for which $\alpha_w < 0,15$ are not classified as sound absorbing.

Sound absorption class	Weighted sound absorption coefficient α_w
A	0,90–1,00
B	0,80–0,85
C	0,60–0,75
D	0,30–0,55
E	0,15–0,25
Unrated	0,00–0,10

We carry out tests for the absorption efficiency of our products in the reverberation chamber in accordance with the standard PN-EN ISO 354: 2005 and the shielding efficiency in the anechoic chamber in accordance with the standard PN-ISO 10053: 2001.

Target	Solution	Proposed products
Reduction of excessive reverberation in the interior	Sound absorption	Alberi Wall, Acoustic Peak, RollWall, Selva Free, Selva Sky, Selva Tower, Selva Wall, Selva Hang, Silent Block, Social Swing, VooVoo 9xx, Cave, Treehouse, Beachhouse
Increased privacy at the workplace	Screening	Alberi Screen, Selva Free, Selva Desk, Quadra Phonebox, Quadra Sha, Quadra Standing Box, RollWall, VooVoo 9xx, Cave, Treehouse Double, Treehouse Glass, Treehouse Stand, Beachhouse
Improving speech intelligibility	Sound absorption and screening	All Bejot acoustic products in the right configuration
Noise reduction	Sound absorption and screening	All Bejot acoustic products in the right configuration

Create your **quiet space**



Principles of acoustic adaptation of interiors:

1. It is important to take into account the purpose of the office and the nature of the work of people staying in it (phone conversations, conversations between employees, teamwork, the need of eye contact).
2. In rooms, it is the most effective to adapt the ceiling and two adjacent perpendicular walls (one of the parallel pairs).
3. Screening noise sources – the higher the screen, the greater its effectiveness. Screens at the workplace should be higher than a sitting man. The septate integrity is also important.
4. A closer location of acoustic products to the sound source will allow more sound to be absorbed.
5. The organization of the workplace can help you with improvement of the acoustic, for example, the separation of quiet areas, communication areas and teamwork areas.
6. Filling the space with soft elements helps to reduce the reverberation time – eg carpeting, upholstered furniture, open bookshelves.
7. Ensuring proper acoustics indoors and avoid design flaws requires choosing proper products and installing them in the right places – if necessary, ask an acoustician for advice.

Would you like to improve acoustics of the interior under a watchful guidance of a professional?

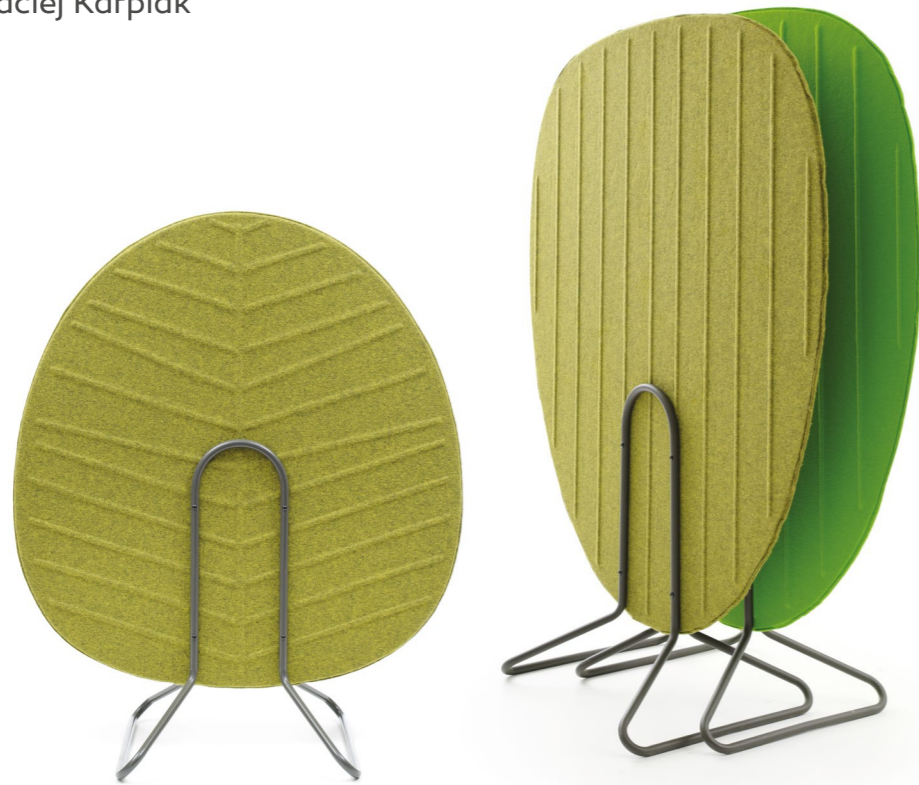
Contact with us and use an assistance of our acoustician.



TREEHOUSE
TREEHOUSE DOUBLE
ALBERI FREE
MOMO 102 WHITE

ALBERI FREE

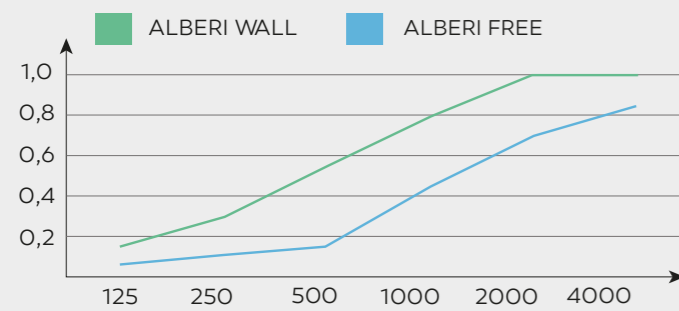
design: Maciej Karpiak



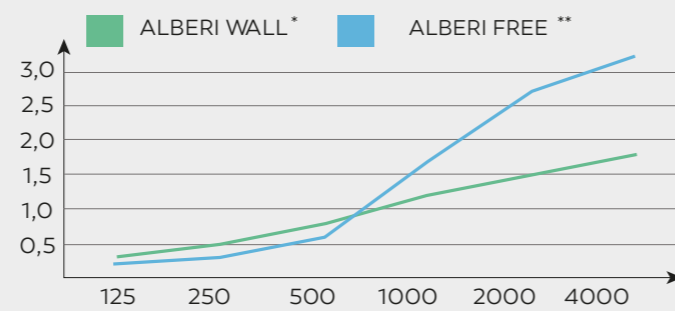
AL SC 1110

AL SC 1580

The sound absorption coefficient α_s relative to frequency [Hz] according to PN-EN ISO 354:2005



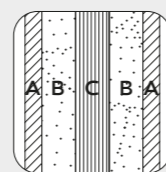
Equivalent acoustic surface area a single object A_{obj} [m²] relative to frequency [Hz] according to PN-EN ISO 354:2005



* averaged result for one object based on composition testing
** results for Alberi ALSC1580

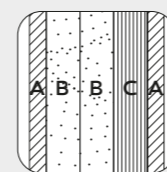
	Weighted sound absorption coefficient α_w according to PN-EN ISO 11654:1999	Sound absorption class according to PN-EN ISO 11654:1999
Alberi Free	0,3 (H)	D
Alberi Wall	0,55 (MH)	D

ALBERI FREE



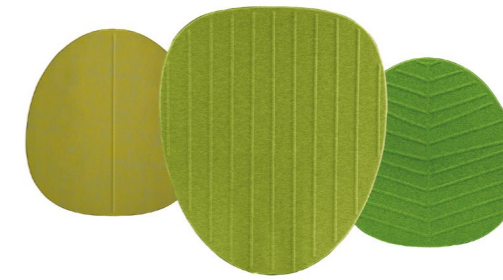
A – decorative felt
B – non-woven fabric
C – hard core

ALBERI WALL



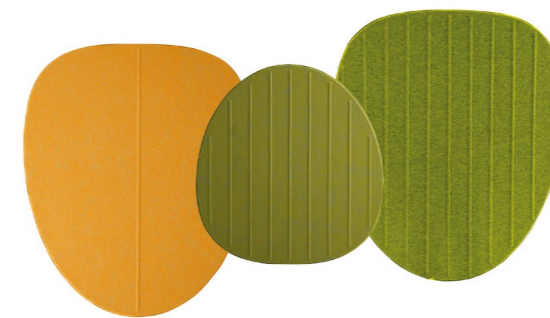
ALBERI WALL

Four **seasons**



SPRING

AL PSC 1110 W1 + AL PSC 1580 W2 + AL PSC 1110 W3



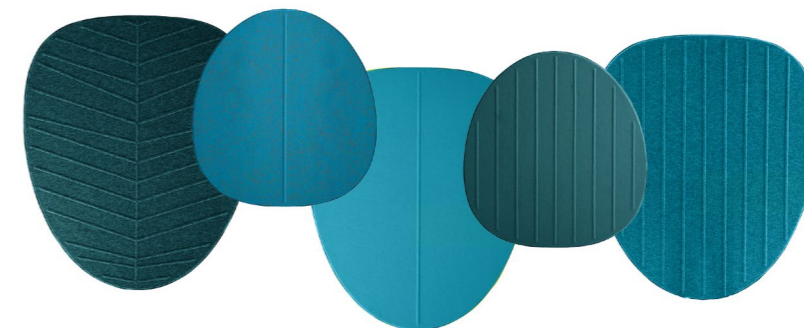
SUMMER

AL PSC 1580 W1 + AL PSC 1110 W2 + AL PSC 1580 W3



AUTUMN

AL PSC 1110 W2 + AL PSC 1580 W3 + AL PSC 1110 W1 + AL PSC 1580 W2 + AL PSC 1110 W3



WINTER

ALPSC 1580 W3 + ALPSC 1110 W1 + ALPSC 1580 W1 + ALPSC 1110 W2 + ALPSC 1580 W2

SILENT BLOCK

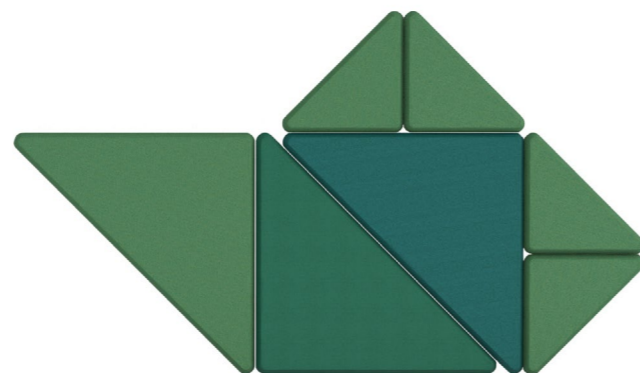
design: Bejot Development Team



SBW H60



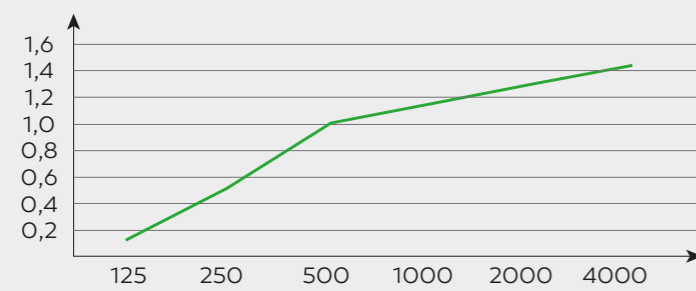
SBW S120 + S60 + S30



SBW T120 + T60

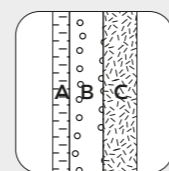


Estimated equivalent sound absorption area of the single object A_{obj} [m²] relative to frequency [Hz] *



* results for SB SQ120

SILENT BLOCK



- A - fabric
- B - polyurethane foam
- C - supporting structure

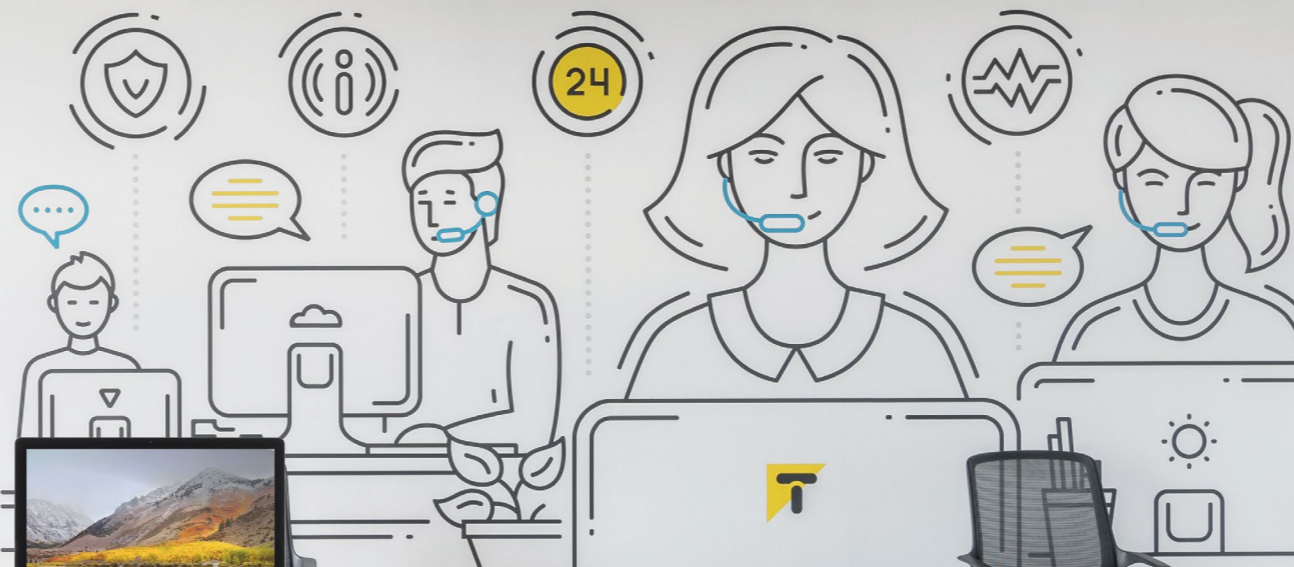


SILENT BLOCK
SKY 3D

”

Sukces, jaki odnieśliśmy,
ma również ciemną stronę.
Nasi klienci mają bardzo
wysokie wymagania.

Bill Gates

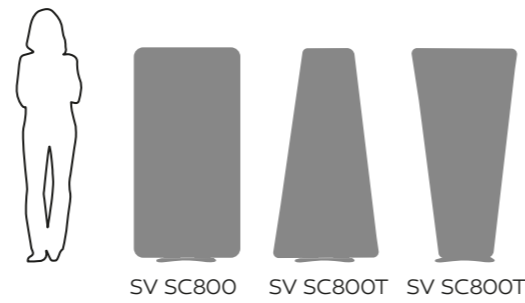
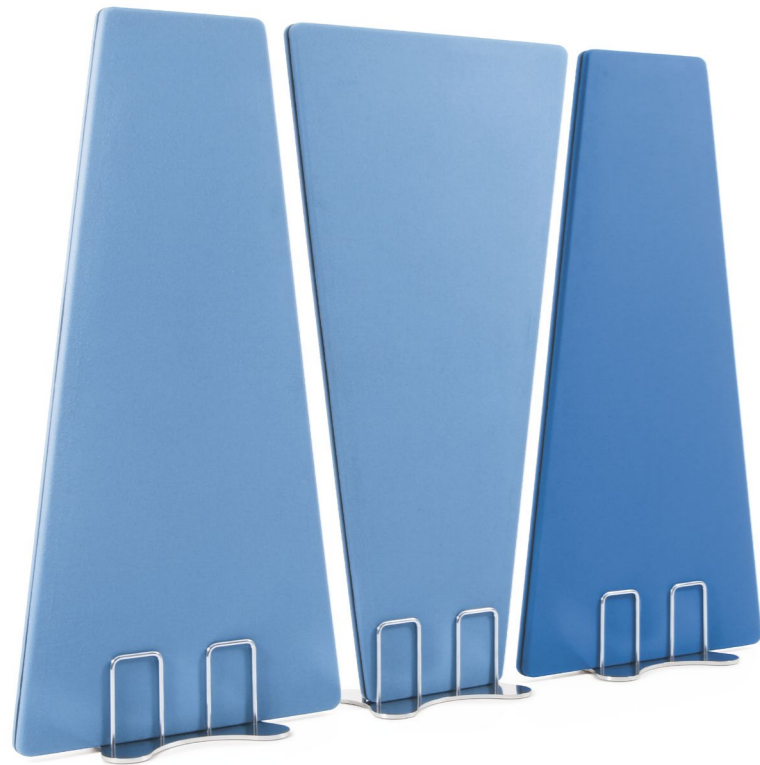


SILENT BLOCK SKY 3D
OVIDIO

SELVA



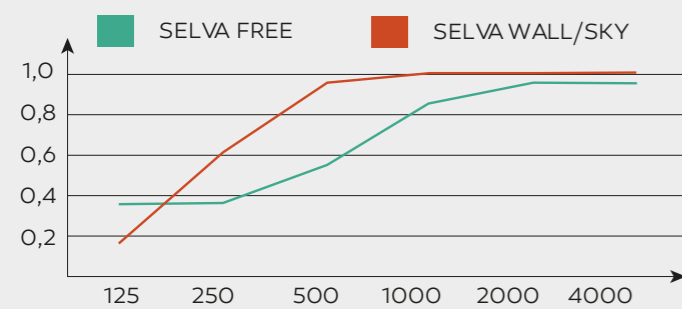
design: Ronald Straubel



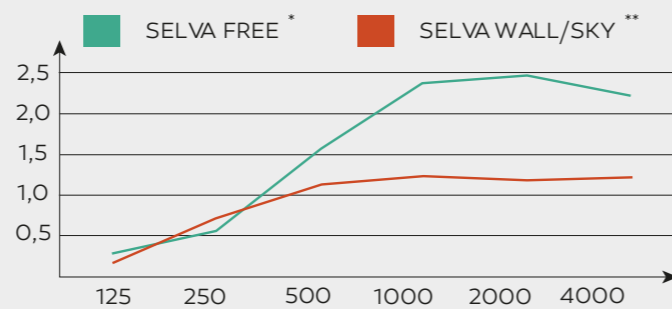
selva FREE



The sound absorption coefficient α_w relative to frequency [Hz] according to PN-EN ISO 354:2005



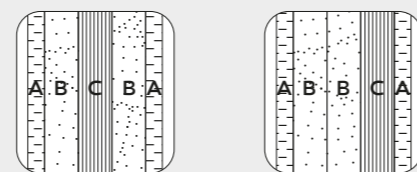
Equivalent sound absorption area of the single object A_{obj} [m²] relative to frequency [Hz] according to PN-EN ISO 354:2005



* results for screen 800x1600
** results for screen 1800x600

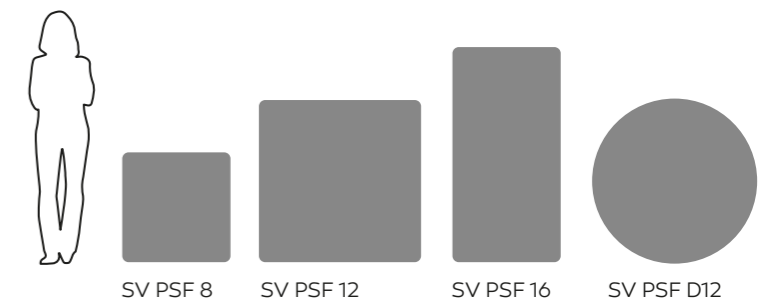
	Weighted sound absorption coefficient α_w according to PN-EN ISO 11654:1999	Sound absorption class according to PN-EN ISO 11654:1999	Weighted acoustic efficiency of screen according to PN-ISO 10053:2001 [dB]
Selva Free	0,55 (MH)	D	8
Selva Sky	0,9	A	-
Selva Wall	0,9	A	-

SELVA FREE SELVA WALL/SKY



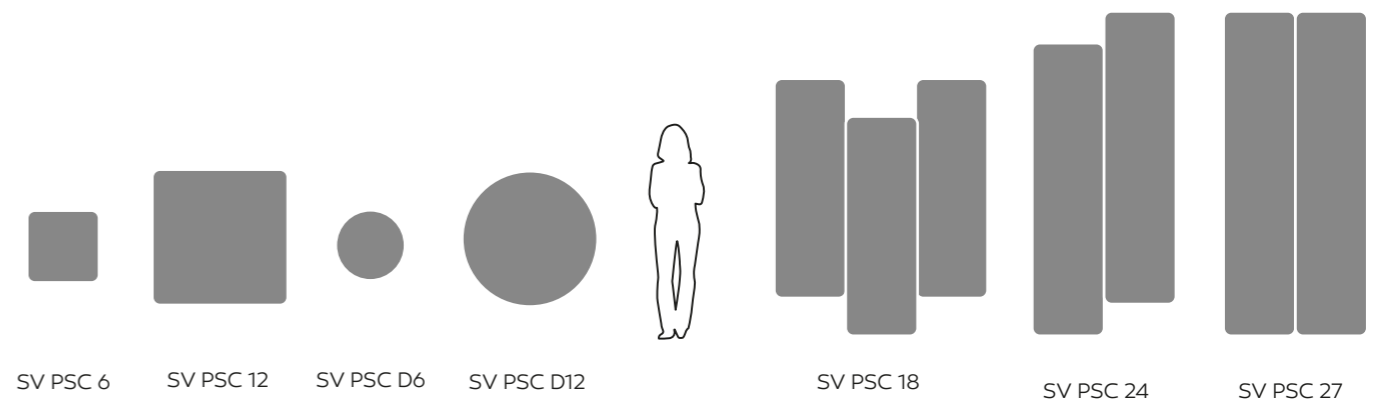
A – fabric
B – non-woven fabric
C – hard core

selva SKY





selva WALL

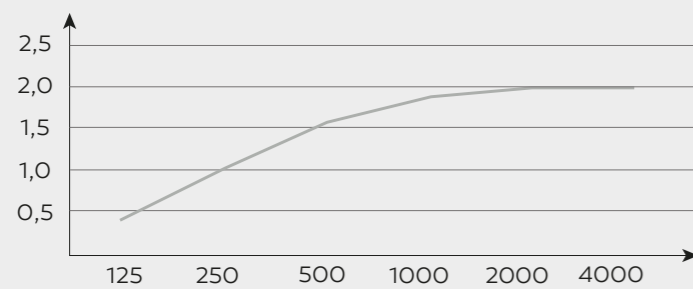


SELVA DESK

design: Bejot Development Team

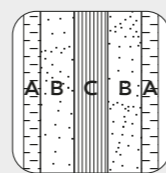


Estimated equivalent sound absorption area of the single object A_{obj} [m²] relative to frequency [Hz] *



* results for SV DK 16 H2

SELVA DESK



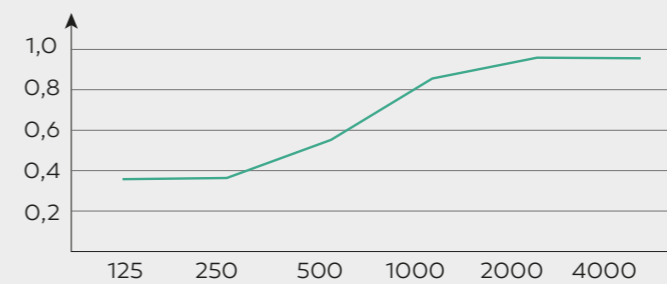
A – fabric
B – non-woven fabric
C – supporting structure

SELVA BOX

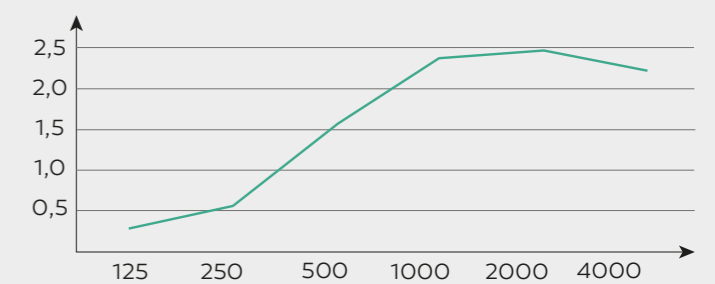
design: Bejot Development Team



The sound absorption coefficient α relative to frequency [Hz] according to PN-EN ISO 354:2005



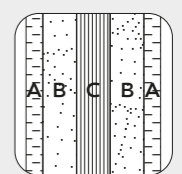
Equivalent sound absorption area of the single object A_{obj} [m²] relative to frequency [Hz] according to PN-EN ISO 354:2005*



* results for screen 800x1600

	Weighted sound absorption coefficient α_w according to PN-EN ISO 11654:1999	Sound absorption class according to PN-EN ISO 11654:1999	Weighted acoustic efficiency of screen according to PN-ISO 10053:2001 [dB]
Selva Box	0,55 (MH)	D	8

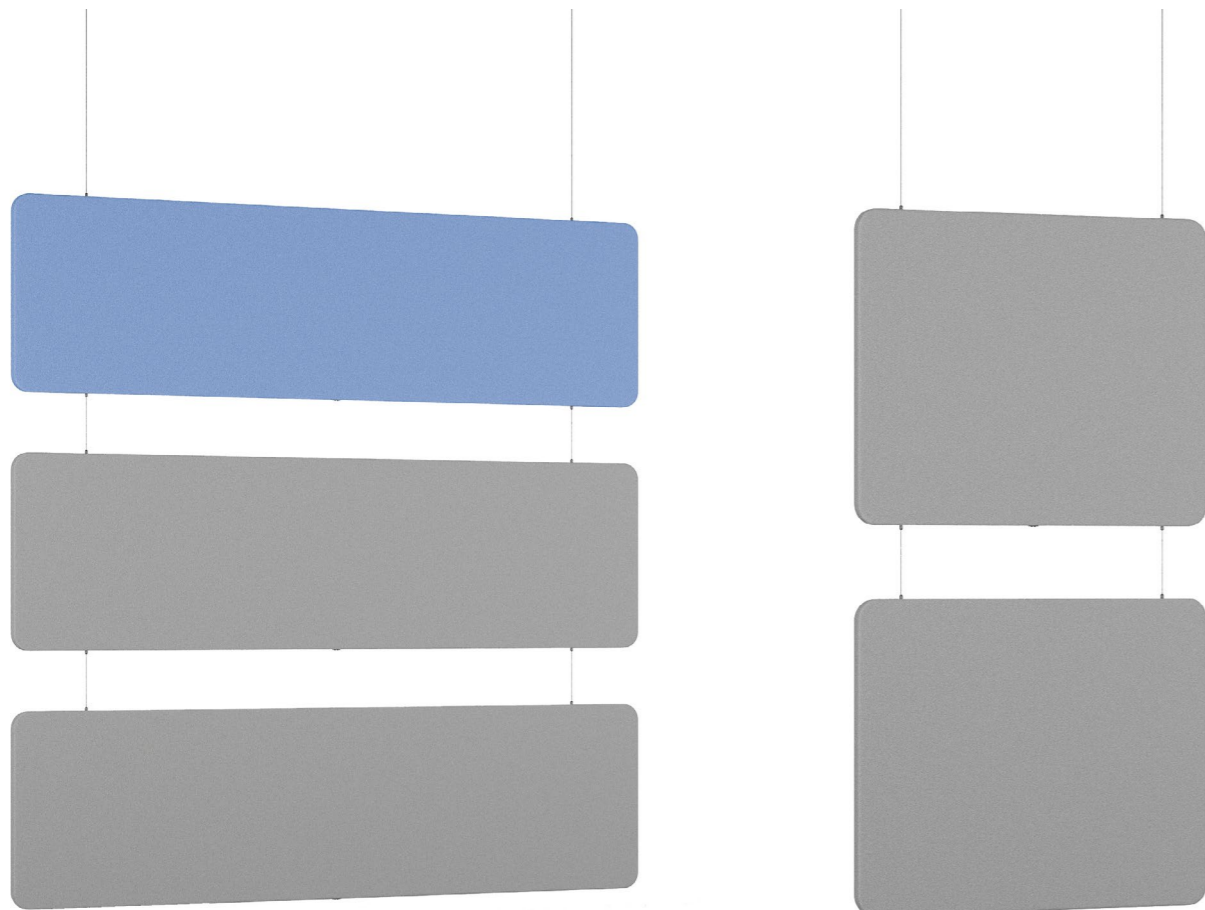
SELVA BOX



A – fabric
B – non-woven fabric
C – supporting structure

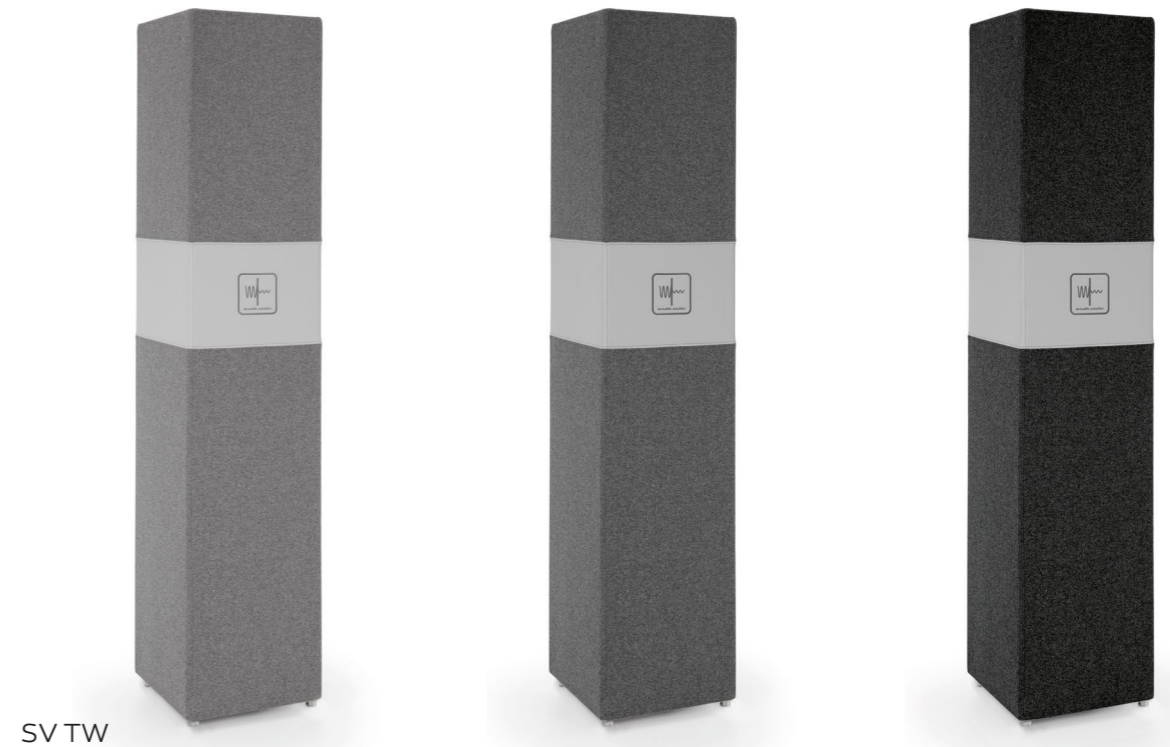
SELVA HANG

design: Bejot Development Team



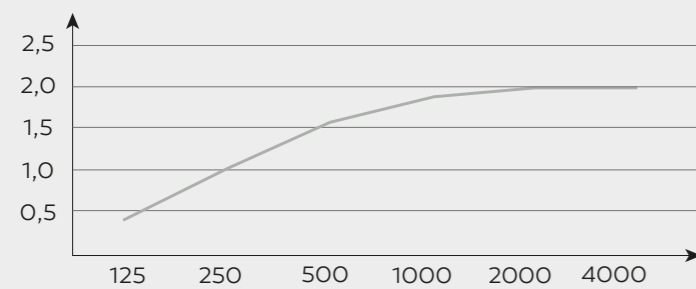
SELVA TOWER

design: Bejot Development Team



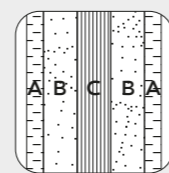
SV TW

Estimated equivalent sound absorption area of the single object A_{obj} [m²] relative to frequency [Hz] *



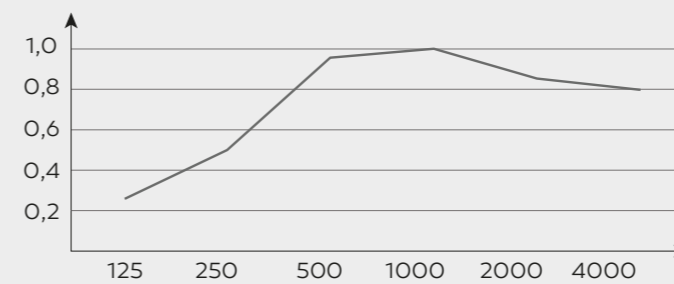
* results for SV HG 16 H2

SELVA HANG

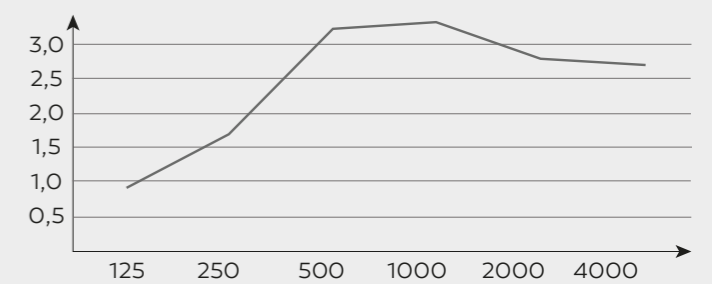


- A – fabric
- B – non-woven fabric
- C – supporting structure

The sound absorption coefficient α_s relative to frequency [Hz] according to PN-EN ISO 354:2005

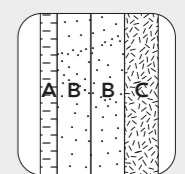


Equivalent sound absorption area of the single object A_{obj} [m²] relative to frequency [Hz] according to PN-EN ISO 354:2005



	Weighted sound absorption coefficient α_w according to PN-EN ISO 11654:1999	Sound absorption class according to PN-EN ISO 11654:1999
Selva Tower	0,8	B

SELVA TOWER



- A – fabric
- B – non-woven fabric
- C – supporting structure

ACOUSTIC PEAK

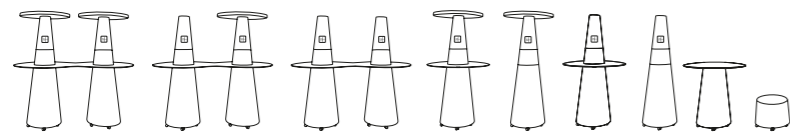
design: Bejot Development Team



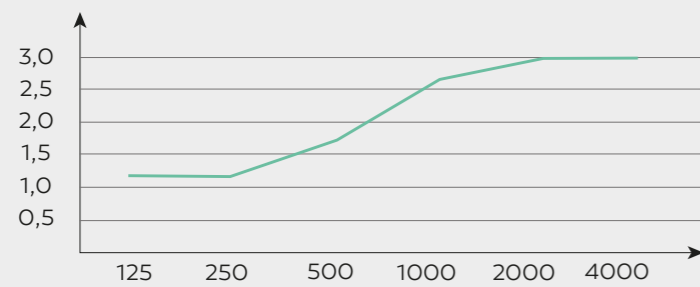
APT W

APT B

2xAP TW + 2xAP RF + AP C2T

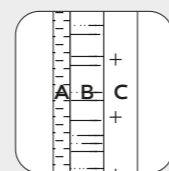


Estimated equivalent sound absorption area of the single object A_{obj} [m²] relative to frequency [Hz] *



* results for AP TW + AP RF

ACOUSTIC PEAK



- A - fabric
- B - absorbent material
- C - perforated construction



BEACHHOUSE

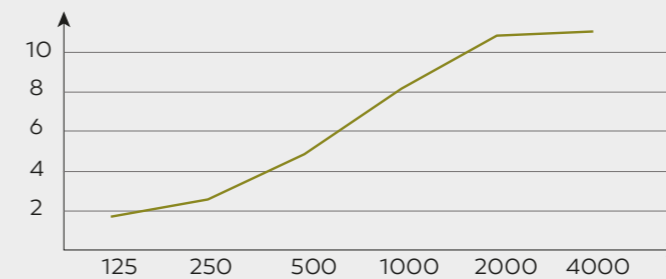
design: Dymitr Malcew



BH

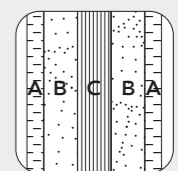
BHW

Estimated equivalent sound absorption area of the single object A_{obj} [m²] relative to frequency [Hz] *



* results for the upholstered version

BEACHHOUSE



- A - fabric
- B - non-woven fabric
- C - supporting structure
- D - absorbent material

QUADRA SHA QUADRA PHONEBOX



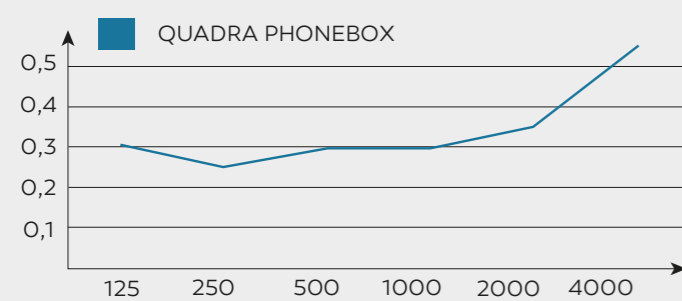
CAVE

design: Dymitr Malcew

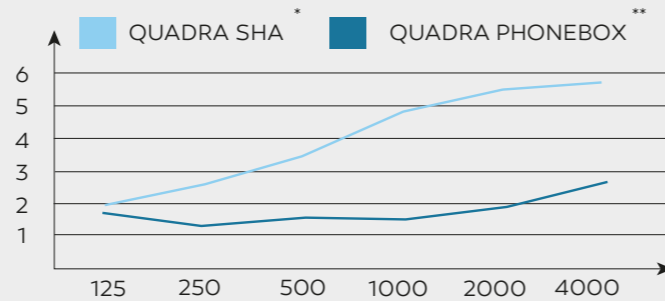
design: Bejot Development Team



The sound absorption coefficient α_s relative to frequency [Hz] according to PN-EN ISO 354:2005



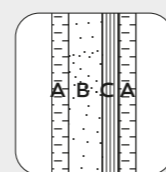
Equivalent sound absorption area of the single object A_{obj} [m²] relative to frequency [Hz]



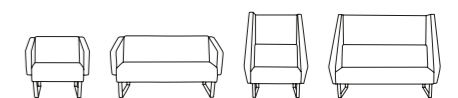
* estimated value
** according to PN-EN ISO 354:2005

	Weighted sound absorption coefficient α_w according to PN-EN ISO 11654:1999	Sound absorption class according to PN-EN ISO 11654:1999	Weighted acoustic efficiency of screen according to PN-ISO 10053:2001 [dB]
Quadra Phonebox	0,35 (H)	D	20

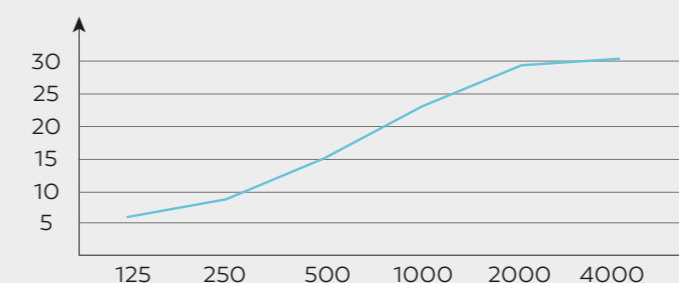
QUADRA PHONEBOX/ SHA



A – fabric
B – non-woven fabric
C – hard core

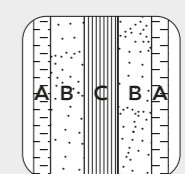


Estimated equivalent sound absorption area of the single object A_{obj} [m²] relative to frequency [Hz] *



* results for layout 6xCV STR + 2xCV 60

CAVE



A – fabric
B – absorbent material
C – supporting structure
D – non-woven fabric



CAVE
LUMI WOOD
CUBE

TREEHOUSE

design: Dymitr Malcew



TH



TH D

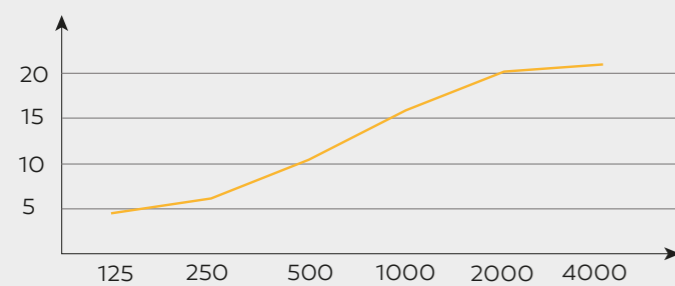
QUADRA STANDING BOX

design: Bejot Development Team



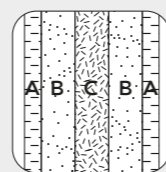
QD SBG

Estimated equivalent sound absorption area of the single object A_{obj} [m²] relative to frequency [Hz] *



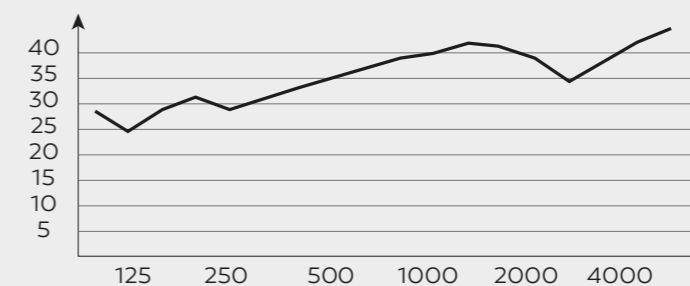
* results for upholstered version TH D with a wall

TREEHOUSE
(tapicerowany)

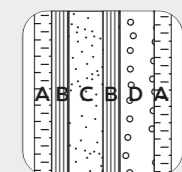


A – fabric
B – non-woven fabric
C – supporting structure

Acoustic insulation of the glass R [dB]
in relation to frequency [Hz]



QUADRA
STANDING BOX



A – fabric
B – supporting structure
C – non-woven fabric
D – polyurethane foam

	Acoustic insulation of the R_w glass according to ISO 10140-1 and classification ISO 717-1	Reverberation time inside the booth
Quadra standing box	38 dB	<0,2 s

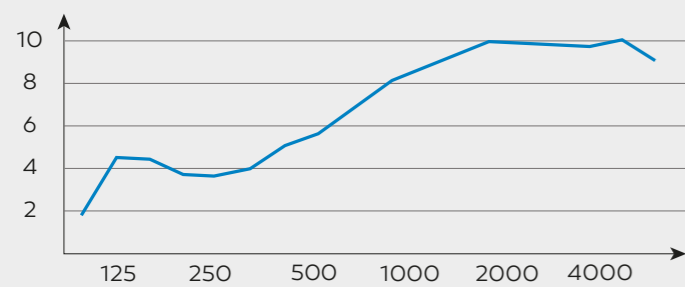
TREEHOUSE GLASS

design: Bejot Development Team

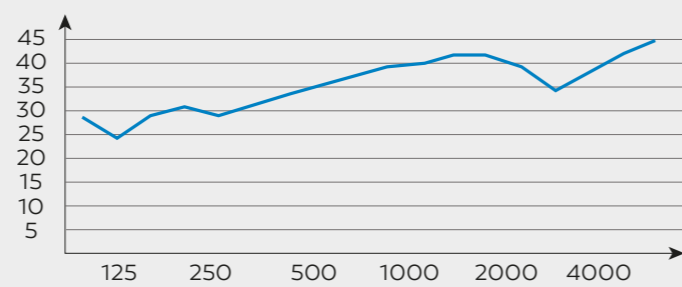


THDG

Estimated equivalent sound absorption area of the single object A_{obj} [m²] relative to frequency [Hz]

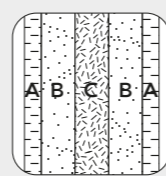


Acoustic insulation of the glass R [dB] in relation to frequency [Hz]



TREEHOUSE GLASS

	Acoustic insulation of the R_w glass according to ISO 10140-1 and classification ISO 717-1	Reverberation time inside the booth
Treehouse glass	38 dB	<0,2 s



A – fabric
B – non-woven fabric
C – supporting structure

TREEHOUSE STAND GLASS

design: Bejot Development Team

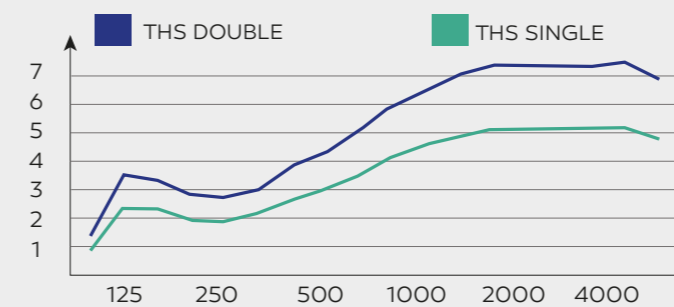


THS D1G



THS S2G

Estimated equivalent sound absorption area of the single object A_{obj} [m²] relative to frequency [Hz]

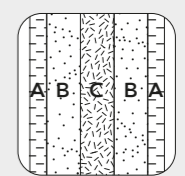


Acoustic insulation of the glass R [dB] in relation to frequency [Hz]



TREEHOUSE STAND GLASS

	Acoustic insulation of the R_w glass according to ISO 10140-1 and classification ISO 717-1	Reverberation time inside the booth
Treehouse stand glass	38 dB	<0,2 s



A – fabric
B – non-woven fabric
C – supporting structure

ROLLWALL

design: Bejot Development Team



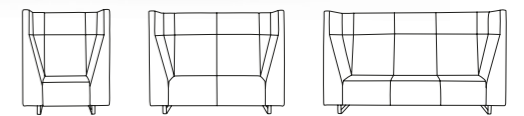
RW

VOO VOO 9XX

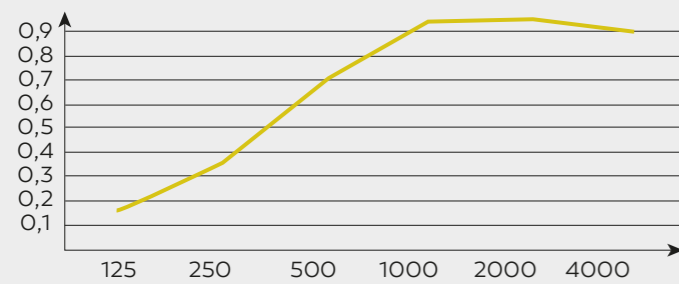
design: Bejot Development Team



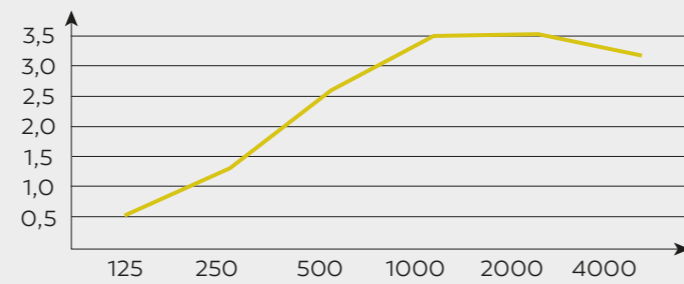
VV 922 BOX + TB



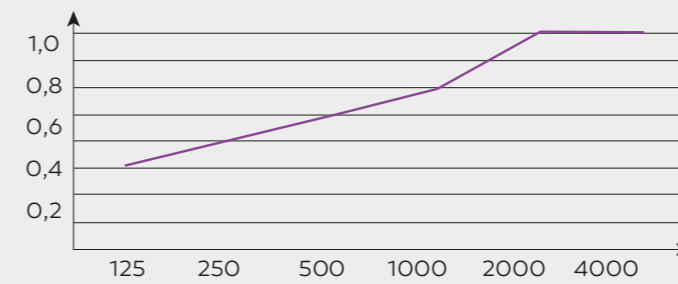
The sound absorption coefficient α_s relative to frequency [Hz] according to PN-EN ISO 354:2005



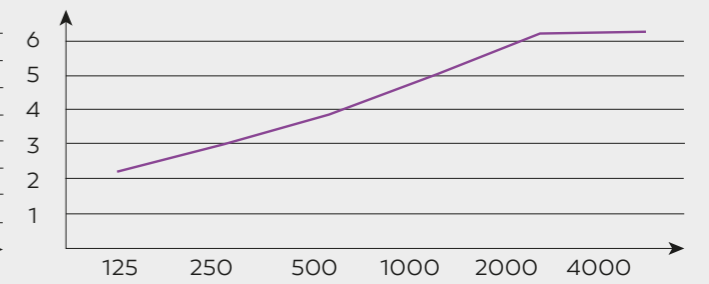
Equivalent sound absorption area of the single object A_{obj} [m²] relative to frequency [Hz] according to PN-EN ISO 354:2005



The sound absorption coefficient α_s relative to frequency [Hz] according to PN-EN ISO 354:2005



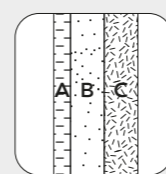
Equivalent sound absorption area of the single object A_{obj} [m²] relative to frequency [Hz] according to PN-EN ISO 354:2005 *



* results for VV922

	Weighted sound absorption coefficient α_w according to PN-EN ISO 11654:1999	Sound absorption class according to PN-EN ISO 11654:1999
Rollwall	0,65 (MH)	C

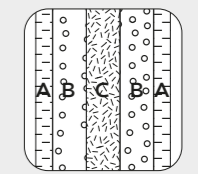
ROLLWALL



A – fabric
B – non-woven fabric
C – supporting structure

	Weighted sound absorption coefficient α_w according to PN-EN ISO 11654:1999	Sound absorption class according to PN-EN ISO 11654:1999	Weighted acoustic efficiency of screen according to PN-ISO 10053:2001 [dB]
VooVoo 9xx	0,6 (H)	C	7

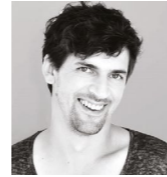
VOO VOO 9xx



A – fabric
B – polyurethane foam
C – supporting structure

SOCIAL SWING

design: Maciej Karpiak



SINGLE

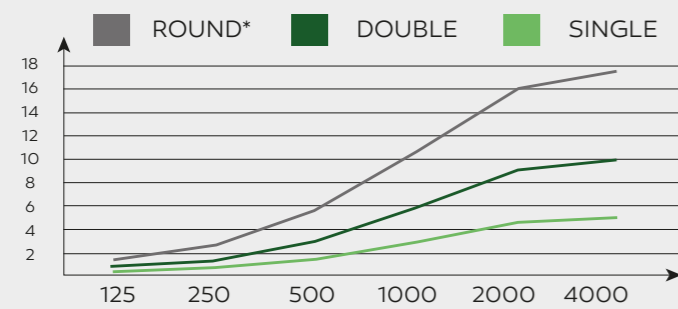


DOUBLE



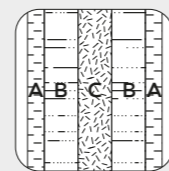
ROUND

Estimated equivalent sound absorption area of the single object A_{obj} [m²] relative to frequency [Hz]



* results for layout of four rocking chairs and one sofa

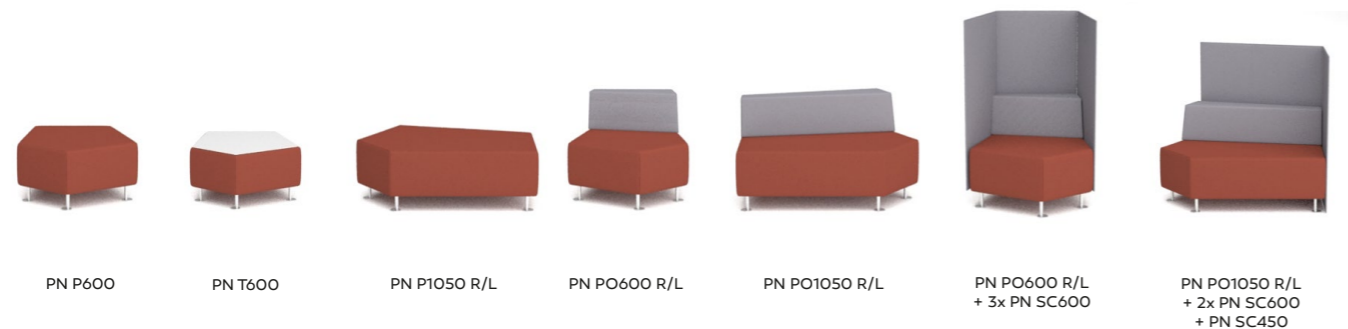
SOCIAL SWING



A - fabric
B - absorbent material
C - supporting structure

Collections with acoustics elements

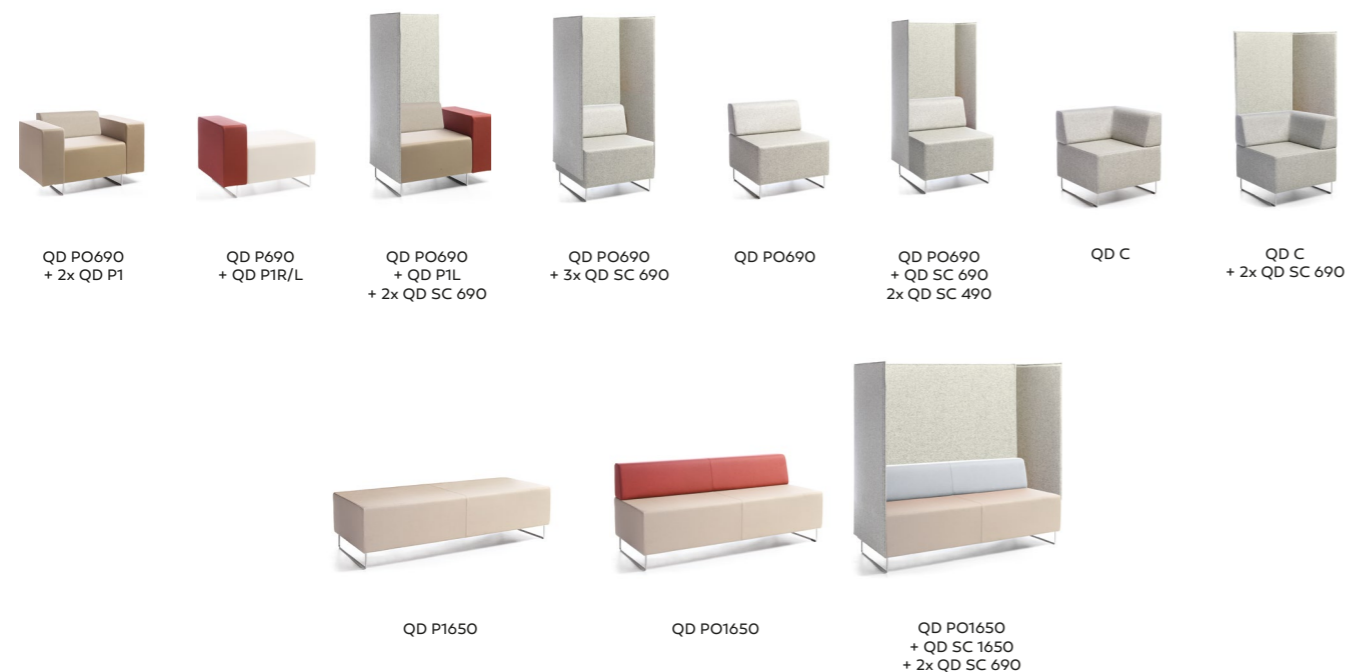
PENTA



U_FLOE

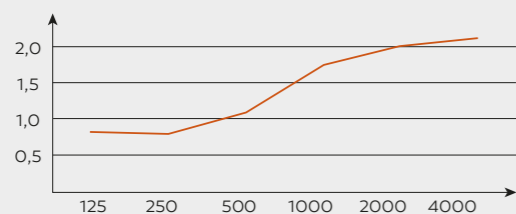


QUADRA

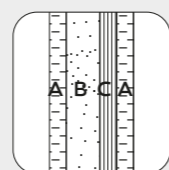


QUADRA/PENTA WALLS

Estimated equivalent sound absorption area of the single object A_{obj} [m²] relative to frequency [Hz] *



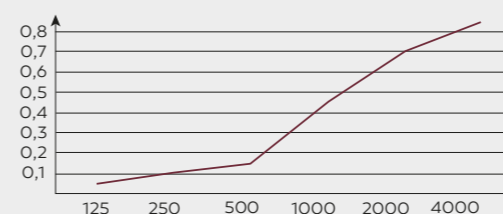
* results for QD SC1650



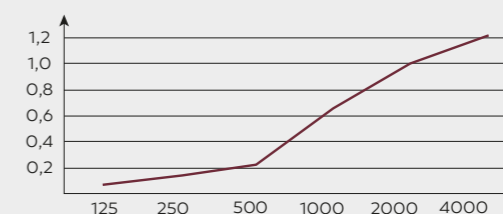
A – fabric
B – non-woven fabric
C – hard core

U_FLOEWALLS

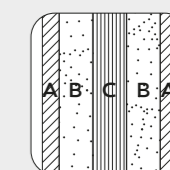
The sound absorption coefficient α relative to frequency [Hz] according to PN-EN ISO 354:2005



Estimated equivalent sound absorption area of the single object A_{obj} [m²] relative to frequency [Hz] *



* results for version 1200x1200



A – decorative felt
B – non-woven fabric
C – hard core

The colors presented do not constitute an offer within the meaning of the law. The manufacturer reserves the right to introduce changes in the design and parameters of products offered without changing their overall nature.



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