

A close-up photograph of several acoustic wall panels. The panels are arranged in a geometric pattern, with a central yellow panel surrounded by purple panels, and a green panel visible in the upper left. The panels have a soft, textured surface.

Fluffo ART  
large-format  
acoustic wall panels

**FLUFFO**





**Our large-format ART panels are now available in several new and astounding versions.** Their beautiful design will completely change the character of your interior, bestowing an absolutely unique ambience.

Fluffo ART collection now consists of 6 original designs, within each there are 5 panel variations to choose from. The sound absorption coefficient according to EN ISO 11654:1997 standard:  $\alpha_w = 0.95$ , sound absorption class: A.

The panels are fitted with 4 suspension brackets for easy hanging.

The entire collection will work well wherever the walls need a strong accent and the interior acoustics leave much to be desired - offices, conference rooms, entrance areas, large open spaces, or long corridors are ideal places for those large, acoustic panels.

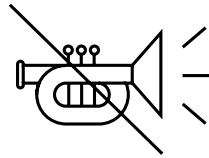
# Panel structure

Firmness



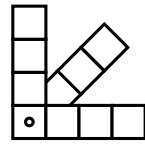
soft

Acoustic properties



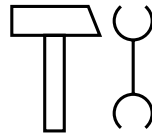
acoustic  
 $\alpha_w=0.95$

Number of colours



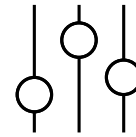
9 colour sets  
/ 56 colours

Installation



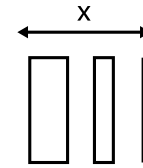
with use of  
pendants

Customization



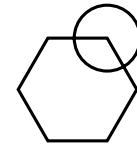
possible different  
panel sizes

Available thicknesses



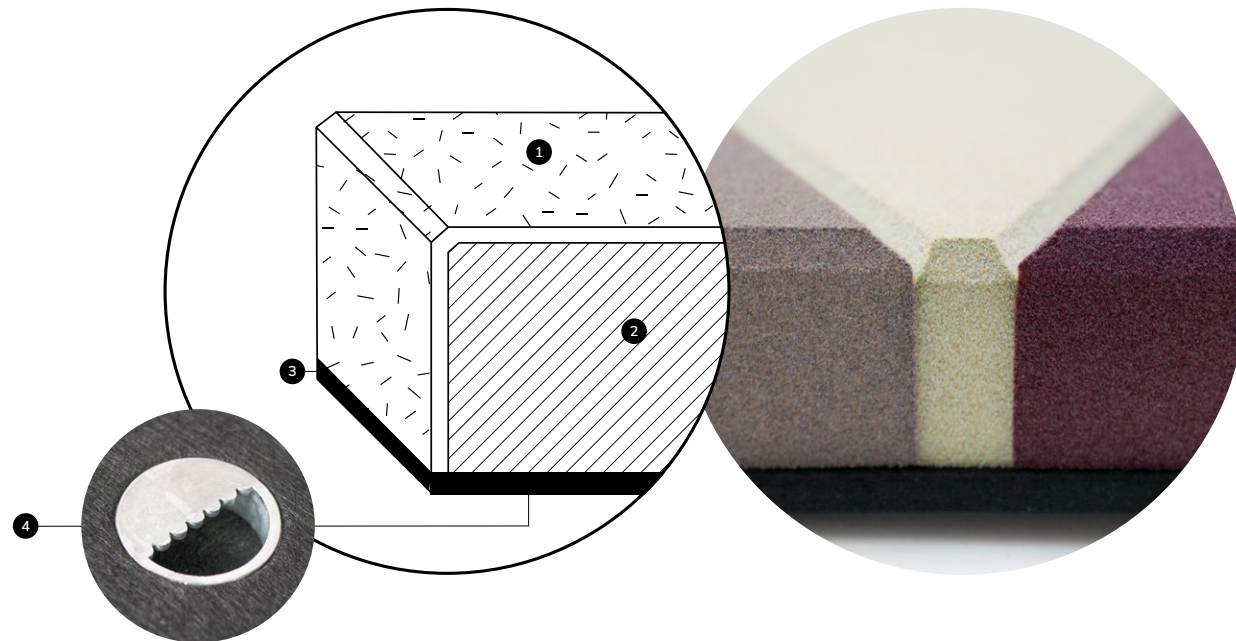
1 thickness  
59 mm

Edge



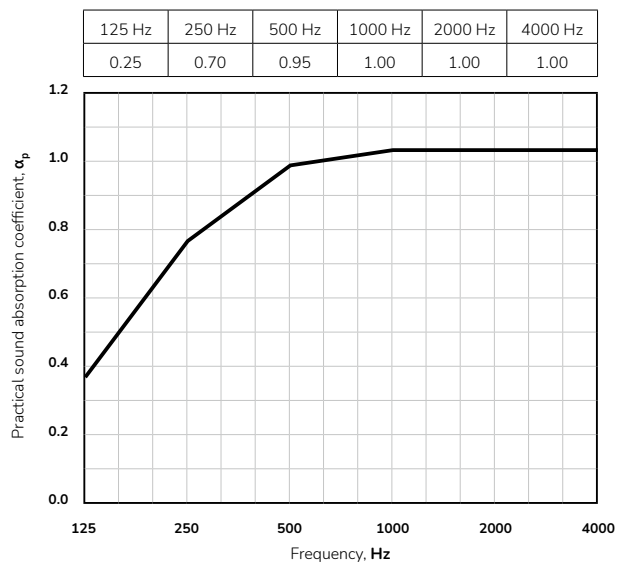
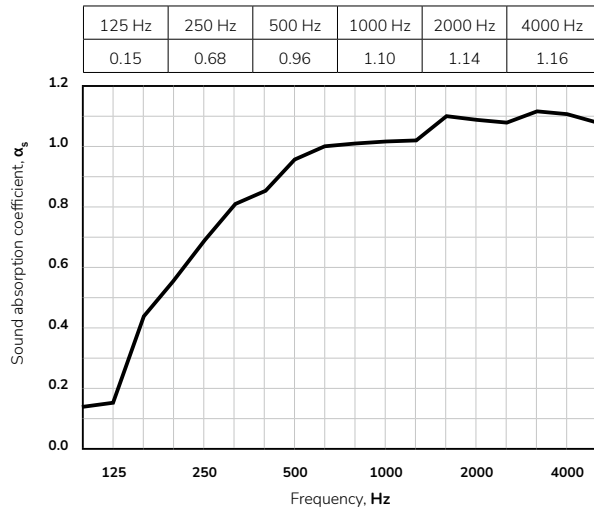
bevelled

1. Fluffo finish (1 mm)
2. Polyurethane foam (50 mm)
3. Acoustic PET board (9 mm)
4. 4 suspension brackets housed in PET board



# Acoustics

$\alpha_s$ , Sound absorption coefficient according to PN-EN ISO 354:2005



Sound absorption class:

**A**

Sound absorption indicator according to PN-EN ISO 11654:1999  $\alpha_w = 0,95$





Acoustic  
measurement expert:



www.falconacoustics.audio  
biuro@falconacoustics.audio  
+48 576 575 105

Case study:

# Office reverberation measurement

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## PURPOSE OF THE STUDY

Office reverberation time measurement before and after its acoustic adaptation.

Permissible reverberation time in office rooms according to **PN-B-02151-4 standard: Ts 0,6**

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## METHOD OF MEASUREMENT

In both cases, an omni-directional source was used as the sound source. The impulse signal was recorded using a measuring meter. Reverberation time measurements were made according to **PN-EN ISO 3382-2** Acoustics Engineering method.

Measurements were made at six measurement points, three measurement points for each of the two source positions.



Room before acoustic adaptation



Room after acoustic adaptation

## ROOM DETAILS

At the time of taking the measurements, the examined room was fully finished and furnished according to its function. There was carpeting on the floor. One wall constituted the glass facade of the building, the other was a glass wall separating the room from the corridor. The remaining two walls and the ceiling were painted. There were installations under the ceiling.

When the measurements were taken after the acoustic adaptation was installed, the room had the following sound-absorbing acoustic systems in addition to the standard furnishings:

1. 3 x Fluffo ART Fusion large-format wall panels
2. 5 x Fluffo AIR Pixel overhead panels
3. 6 x Fluffo GLASS Dot L panels

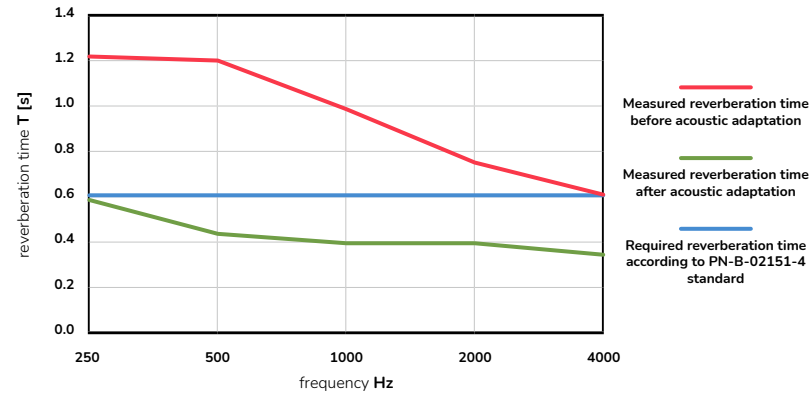


Room after acoustic adaptation - top view



## RESULTS AND ANALYSIS OF THE MEASUREMENTS

Measured reverberation time before acoustic adaptation.



Summary of the averaged values of reverberation time measured before and after acoustic adaptation of the office

Frequency [Hz]	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz
Measured reverberation time before adaptation, T [s]	1.22	1.20	0.97	0.74	0.60
Measured reverberation time after the adaptation, T [s]	0.58	0.43	0.39	0.39	0.36
Required reverberation time according to the standard, T [s]	≤ 0.6				

Based on the graph it can be seen that the reverberation time in the room, after the application of acoustic adaptation in the form of the systems described above, is within the norm requirements.

The greatest differences in reverberation time values occurred in the low and medium frequency ranges. The values of the averaged reverberation time after the application of the acoustic adaptation are very close to each other in each frequency band and amount to about 0,4 s.



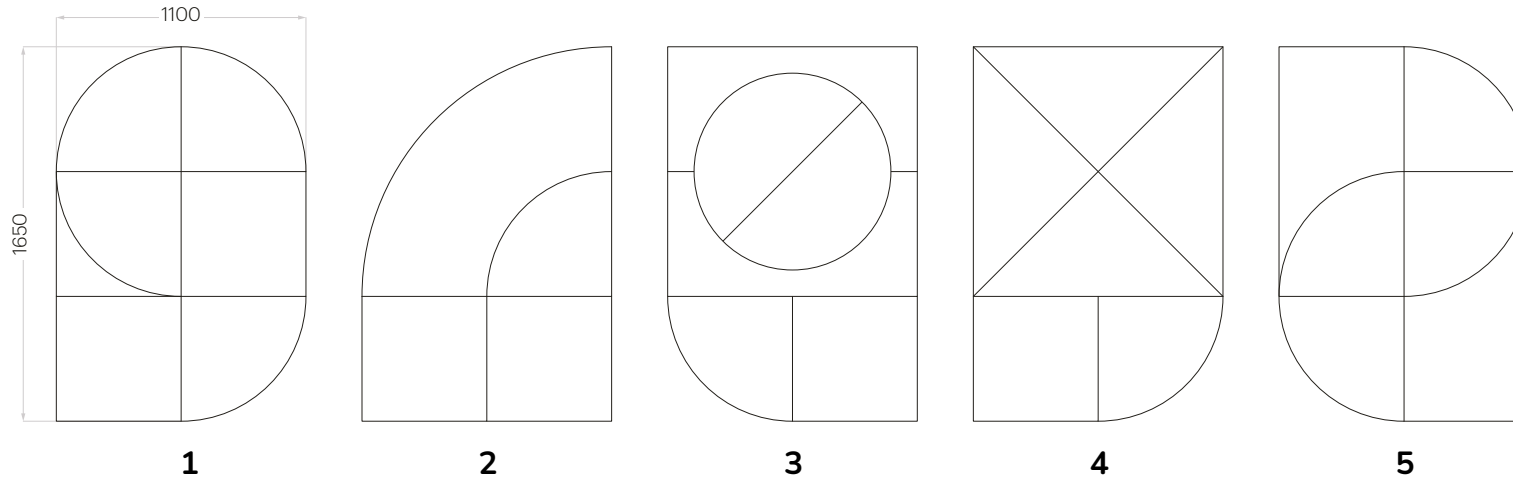






# Fluffo ART / Fan

## AVAILABLE MODELS



## COLOUR SETS

Venezia



Ore



Macaroon



Lava



Beetle



Fig



Ocean



Plum



Energy



## TECHNICAL SPECIFICATIONS

Dimensions: 1100 x 1650 mm

Surface area: 1,82 m<sup>2</sup>

Thickness: 59 mm

Weight: 5,6 kg



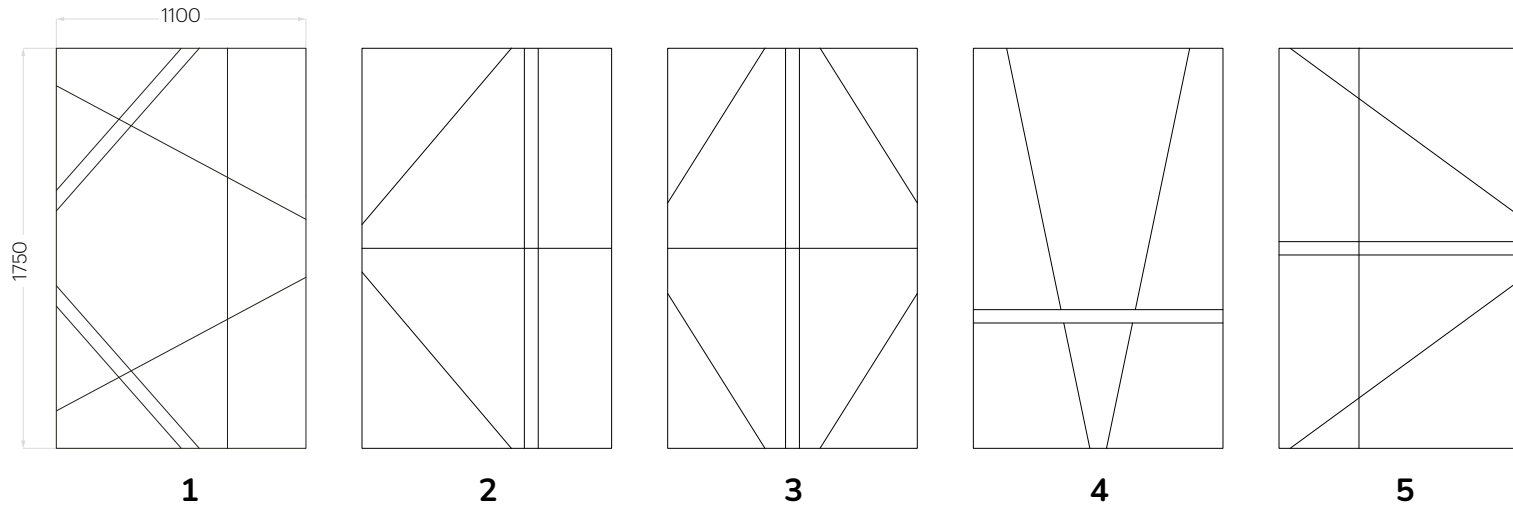






# Fluffo ART / Sail

## AVAILABLE MODELS



## COLOUR SETS

Venezia



Ore



Macaroon



Lava



Beetle



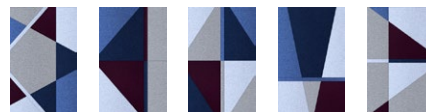
Fig



Ocean



Plum



Energy



## TECHNICAL SPECIFICATIONS

Dimensions: 1100 x 1750 mm

Surface area: 1,93 m<sup>2</sup>

Thickness: 59 mm

Weight: 6,6 kg



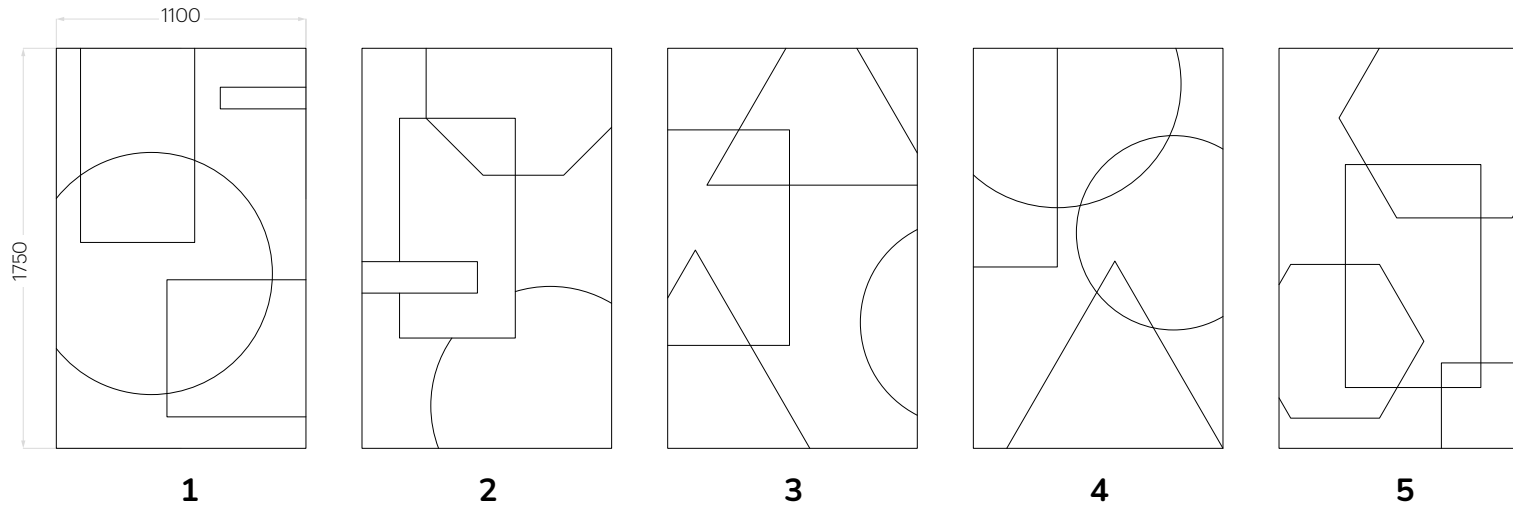






# Fluffo ART / Shapes

## AVAILABLE MODELS

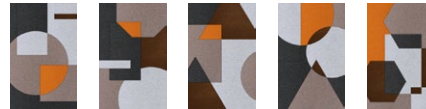


## COLOUR SETS

Venezia



Ore



Macaroon



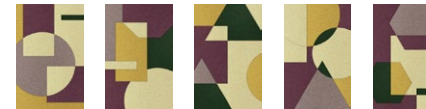
Lava



Beetle



Fig



Ocean



Plum



Energy



## TECHNICAL SPECIFICATIONS

Dimensions: 1100 x 1750 mm

Surface area: 1,93 m<sup>2</sup>

Thickness: 59 mm

Weight: 6,6 kg



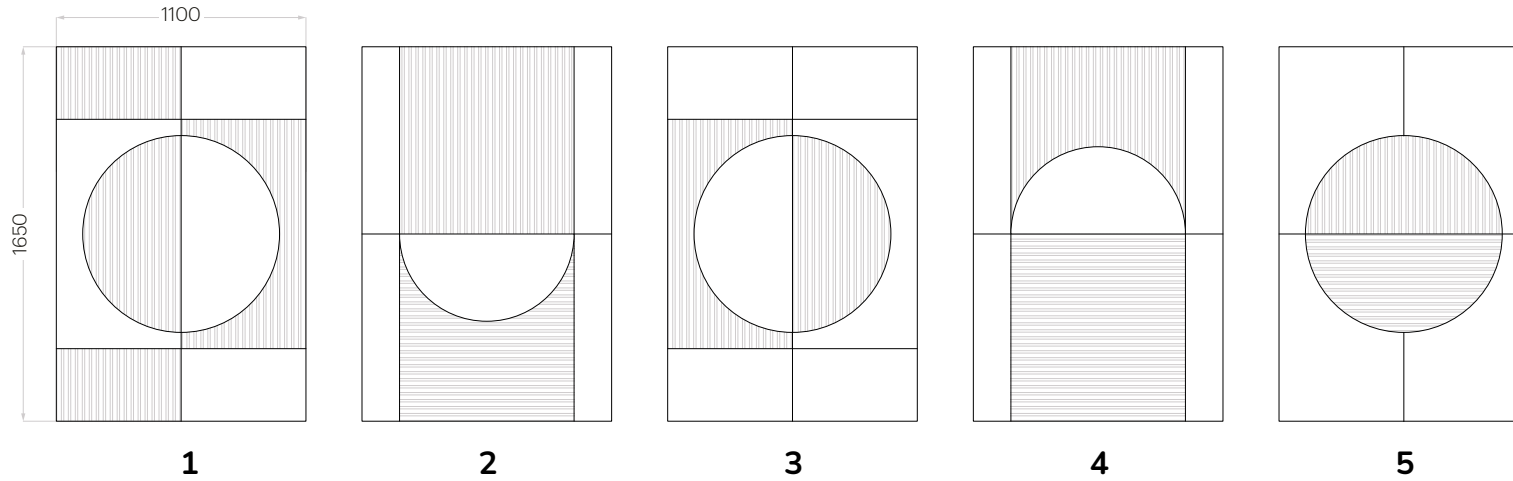






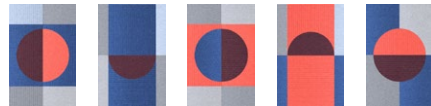
# Fluffo ART / Ring

## AVAILABLE MODELS



## COLOUR SETS

Venezia



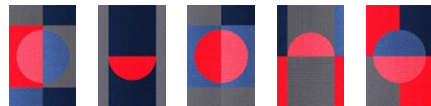
Ore



Macaroon



Lava



Beetle



Fig



Ocean



Plum



Energy



## TECHNICAL SPECIFICATIONS

Dimensions: 1100 x 1650 mm

Surface area: 1,82 m<sup>2</sup>

Thickness: 59 mm

Weight: 5,6 kg



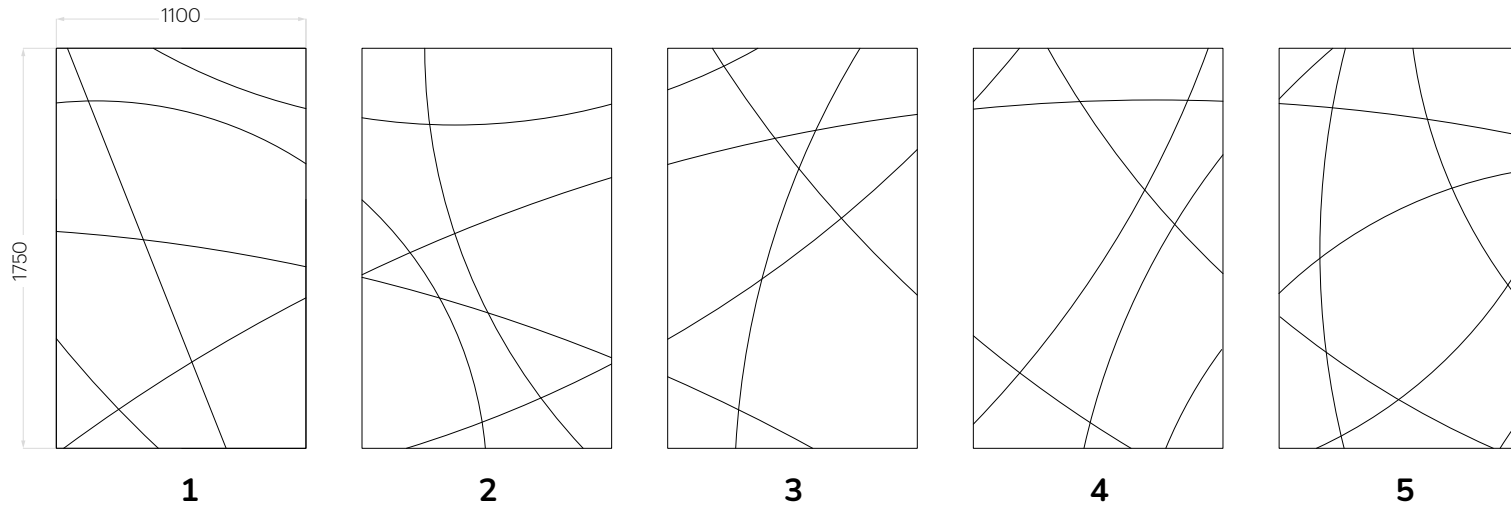






# Fluffo ART / Fusion

## AVAILABLE MODELS

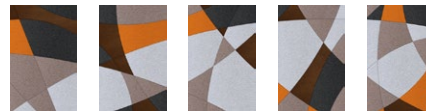


## COLOUR SETS

Venezia



Ore



Macaroon



Lava



Beetle



Fig



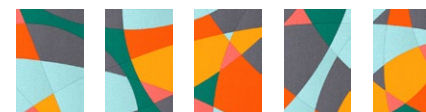
Ocean



Plum



Energy



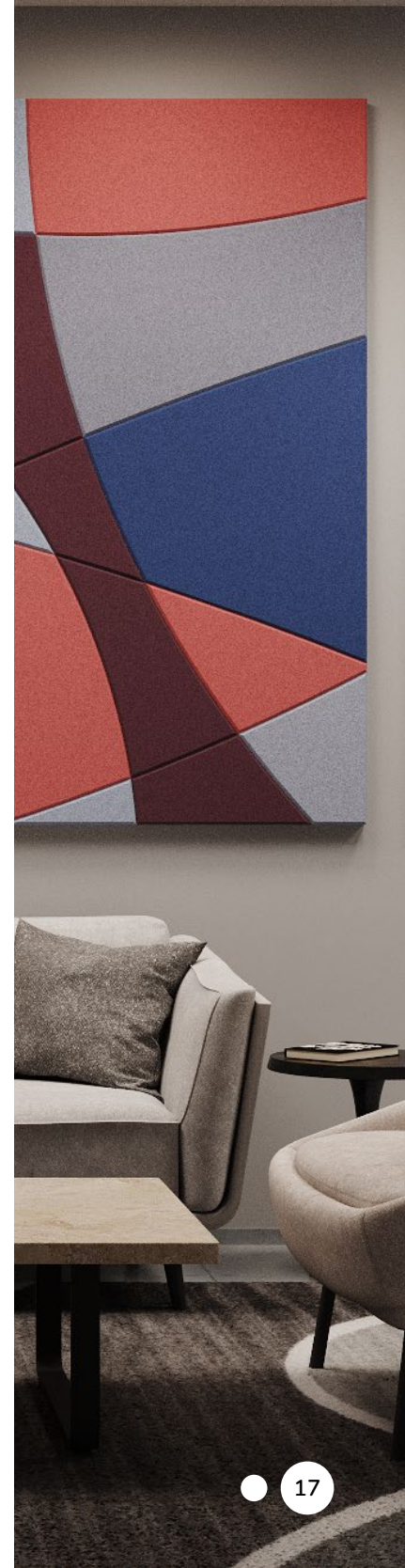
## TECHNICAL SPECIFICATIONS

Dimensions: 1100 x 1750 mm

Surface area: 1,93 m<sup>2</sup>

Thickness: 59 mm

Weight: 6,6 kg



# Colour sets

Each of the new ART panels consists of several elements, and their configuration is quite complex, that is why, to facilitate your choice, we have predefined 9 colour sets for this collection.

Colour sets specially created for the New ART panels:



winter sky, pewter, oxidised silver, merlot, tera cotta, blue macaw



denim, blue macaw, lead, watermelon, raspberry sorbet



emerald, Caribbean, oyster, north sea, deep water



oxidised silver, graphite, rusty, chocolate, mocha



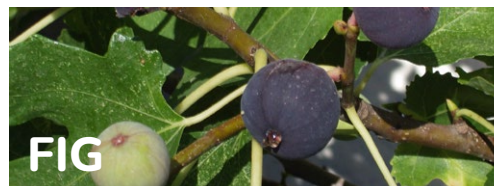
mocha, rusty, north sea, denim, cast iron



denim, blue macaw, winter sky, pewter, plum



ruby, merlot, chocolate, rose, pink lemonade



mocha, merlot, pine green, fawn, oyster



lead, Caribbean, emerald, tera cotta, golden, carrot

Remember, Fluffo palette consists of 56 original colours, you are free to create any combination. The possibilities are endless.



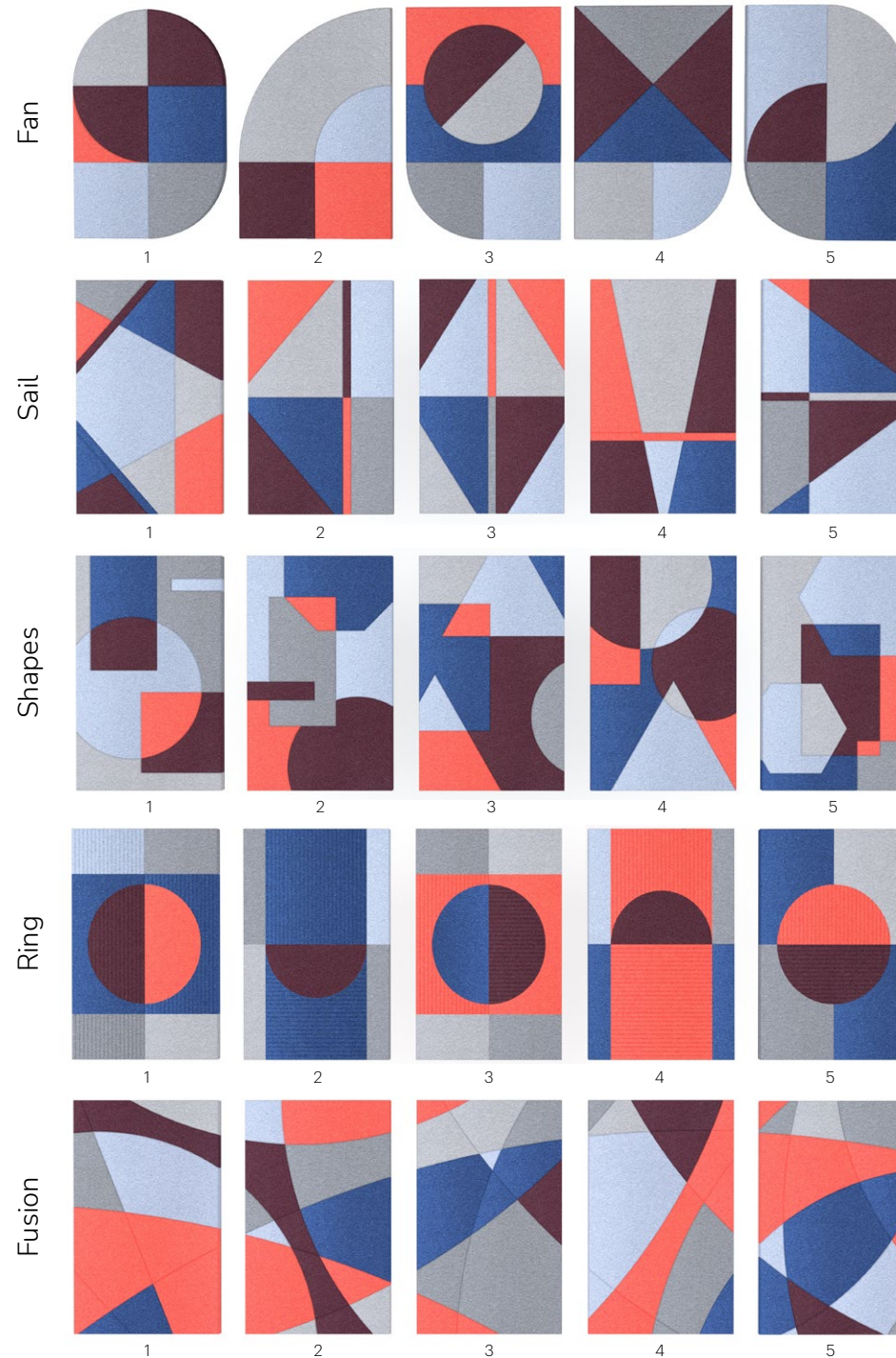


Venezia





# Venezia



- Zimowe niebo Winter sky
- Modroara Blue macaw
- Cynowy Pewter
- Brudne srebro Oxidised silver
- Merlot Merlot
- Terakota Terra cotta



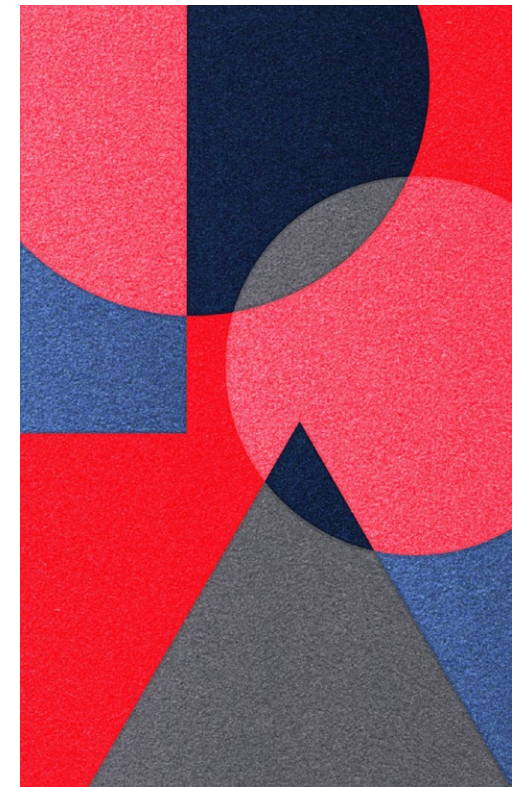
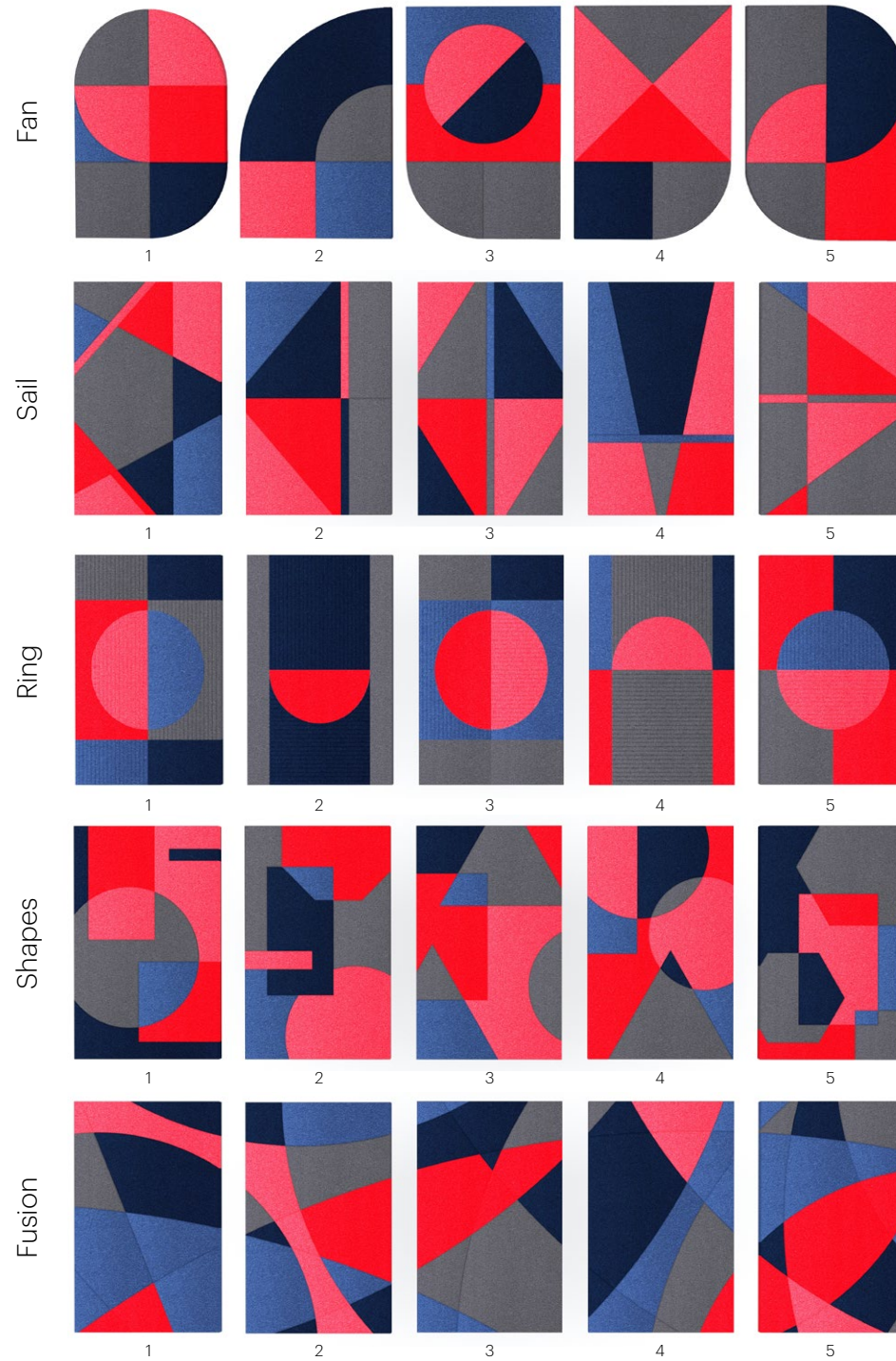


Lava





# Lava



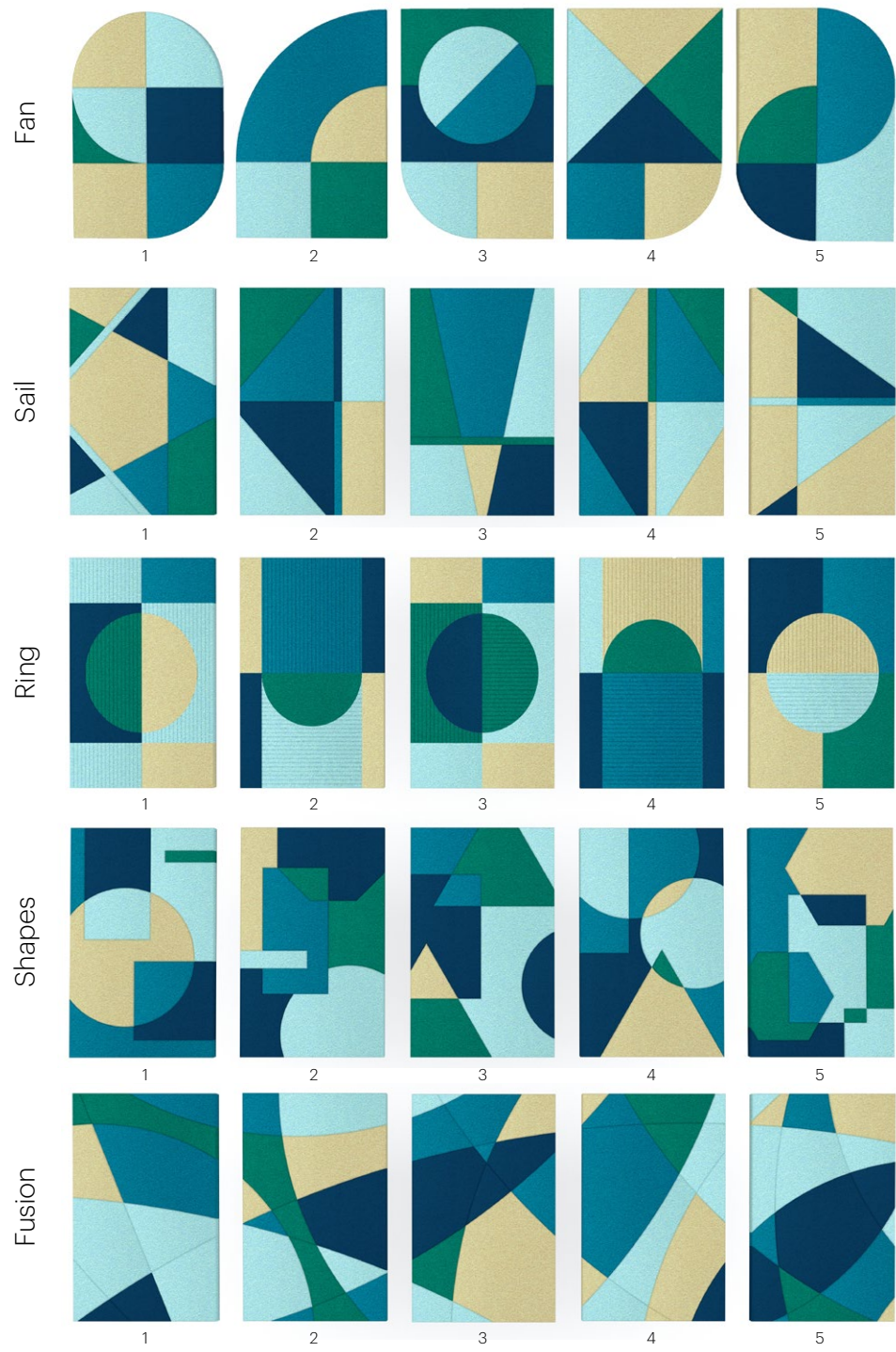
- Denim ●  
Denim
- Modroara ●  
Blue macaw
- Ołowiany ●  
Lead
- Arbuz ●  
Watermelon
- Sorbet malinowy ●  
Raspberry sorbet



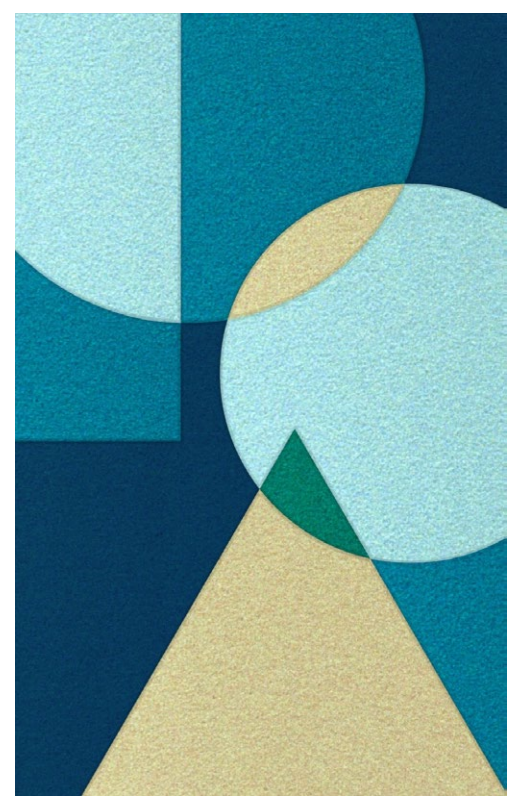


Ocean





# Ocean



- Szmaragd  
Emerald ●
- Morze Północne  
North Sea ●
- Głębina  
Deep water ●
- Karaibski  
Caribbean ●
- Ostrygowy  
Oyster ●



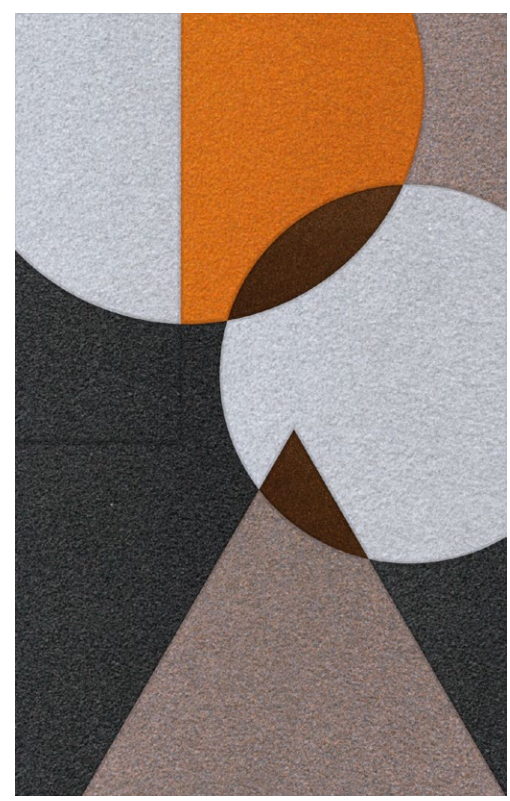
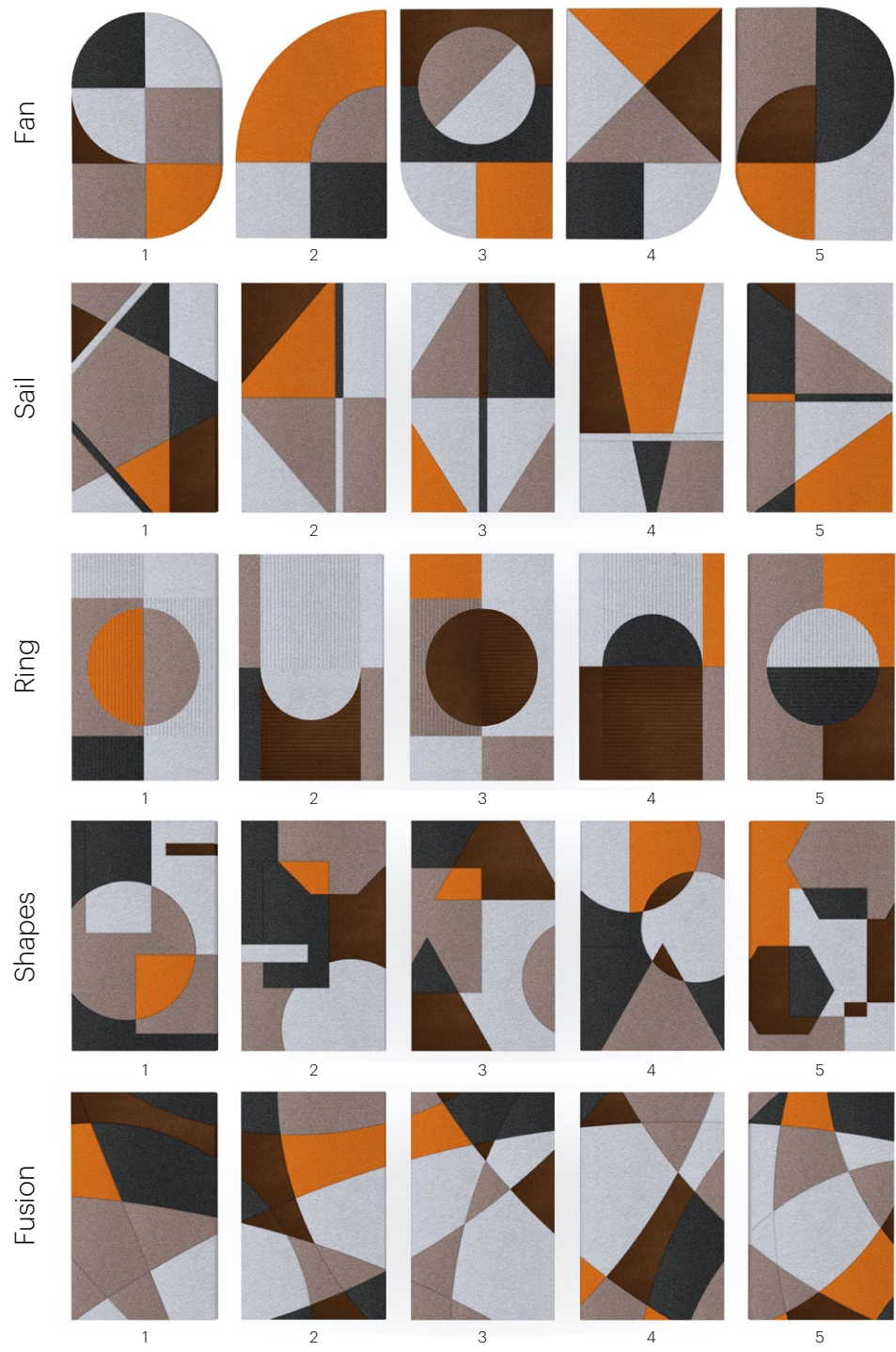


Ore





# Ore



- Brudne srebro  
Oxidised silver
- Grafitowy  
Graphite
- Rdzawy  
Rusty
- Czekolada  
Chocolate
- Mokka  
Mocha



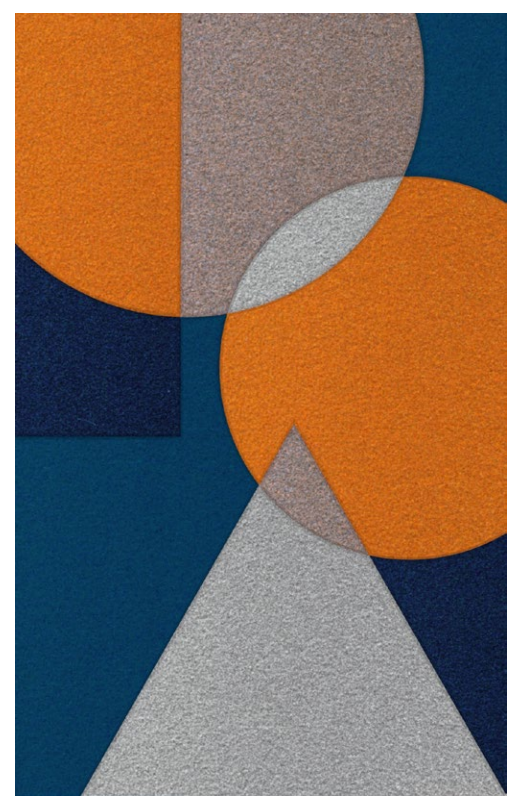
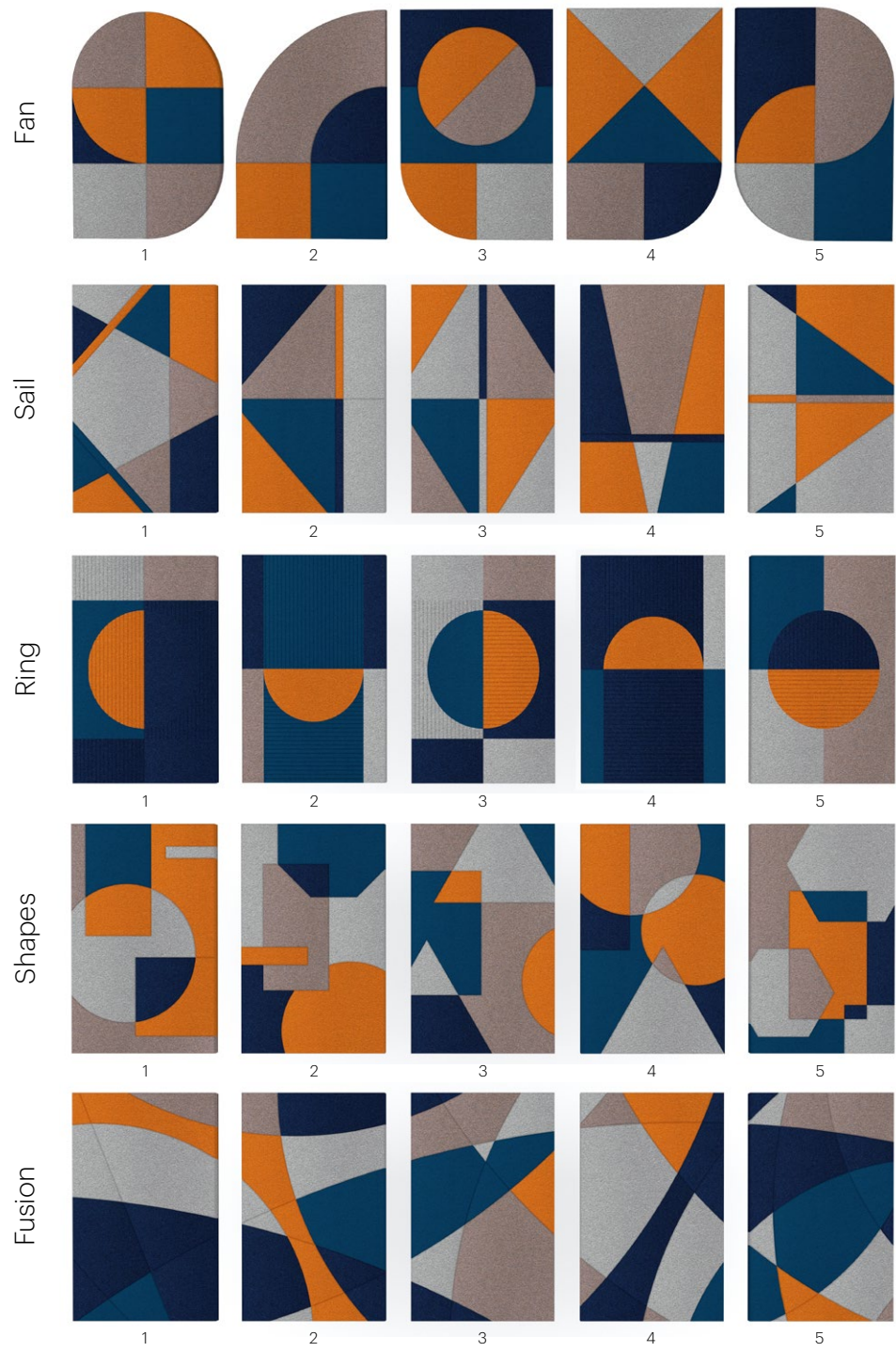


Beetle





# Beetle



- Mokka Mocha ●
- Rdzawy Rusty ●
- Morze Północne North Sea ●
- Denim Denim ●
- Żeliwny Cast iron ●



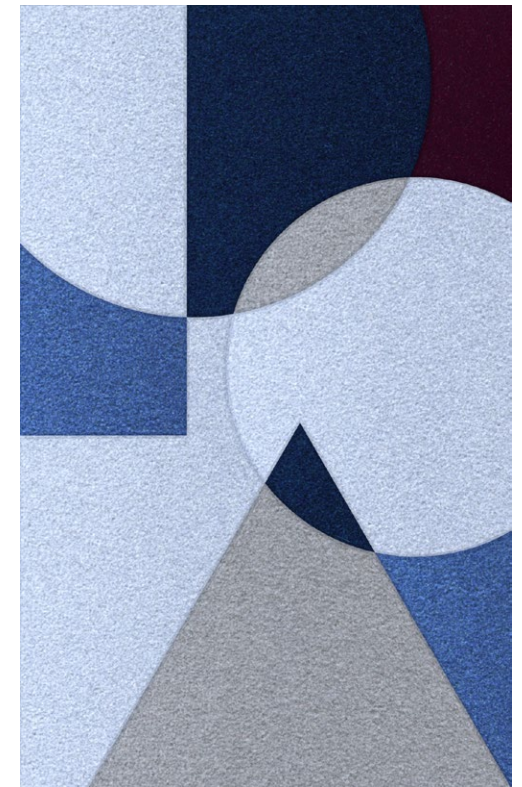
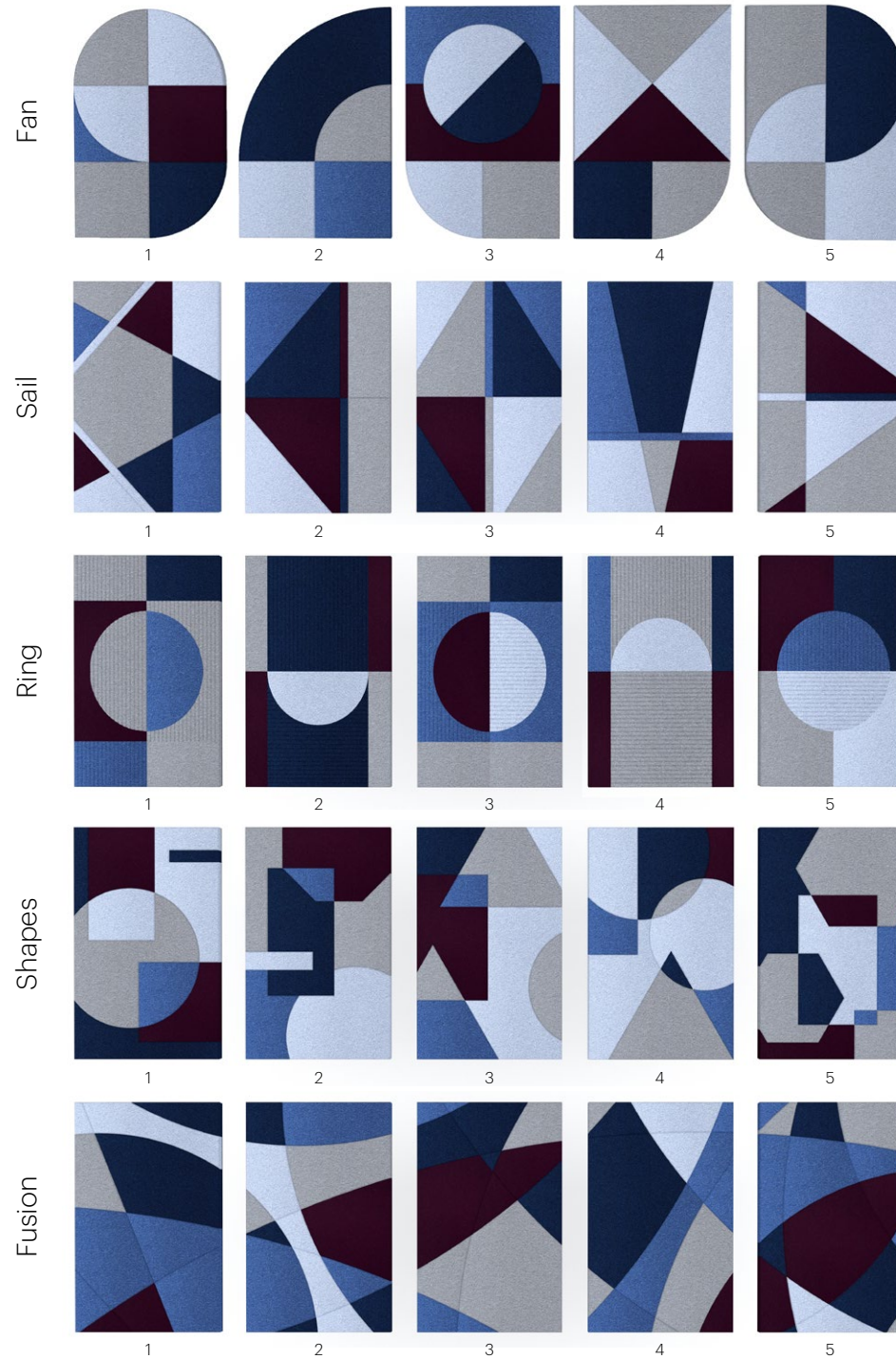


Plum





# Plum



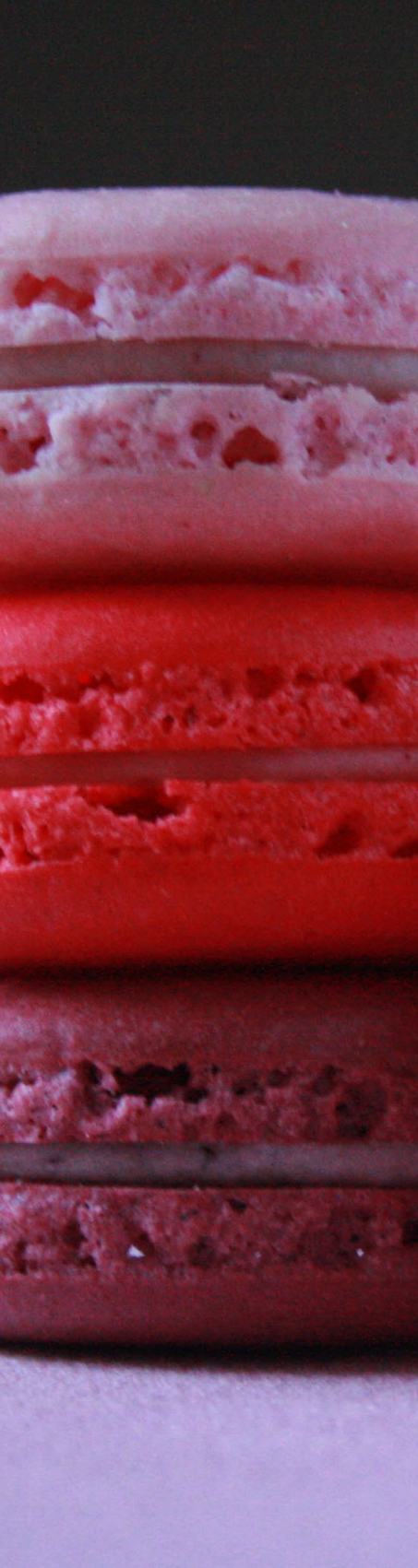
- Denim ●  
Denim
- Modroara ●  
Blue macaw
- Zimowe niebo ●  
Winter sky
- Cynowy ●  
Pewter
- Śliwkowy ●  
Plum



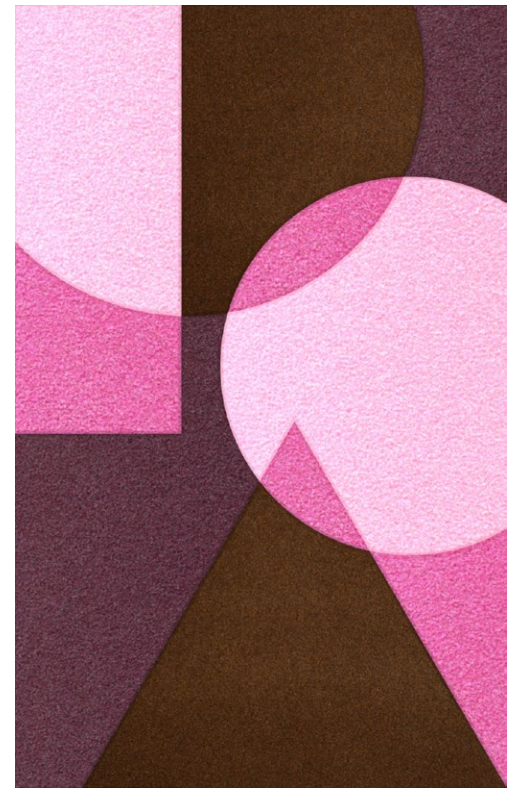
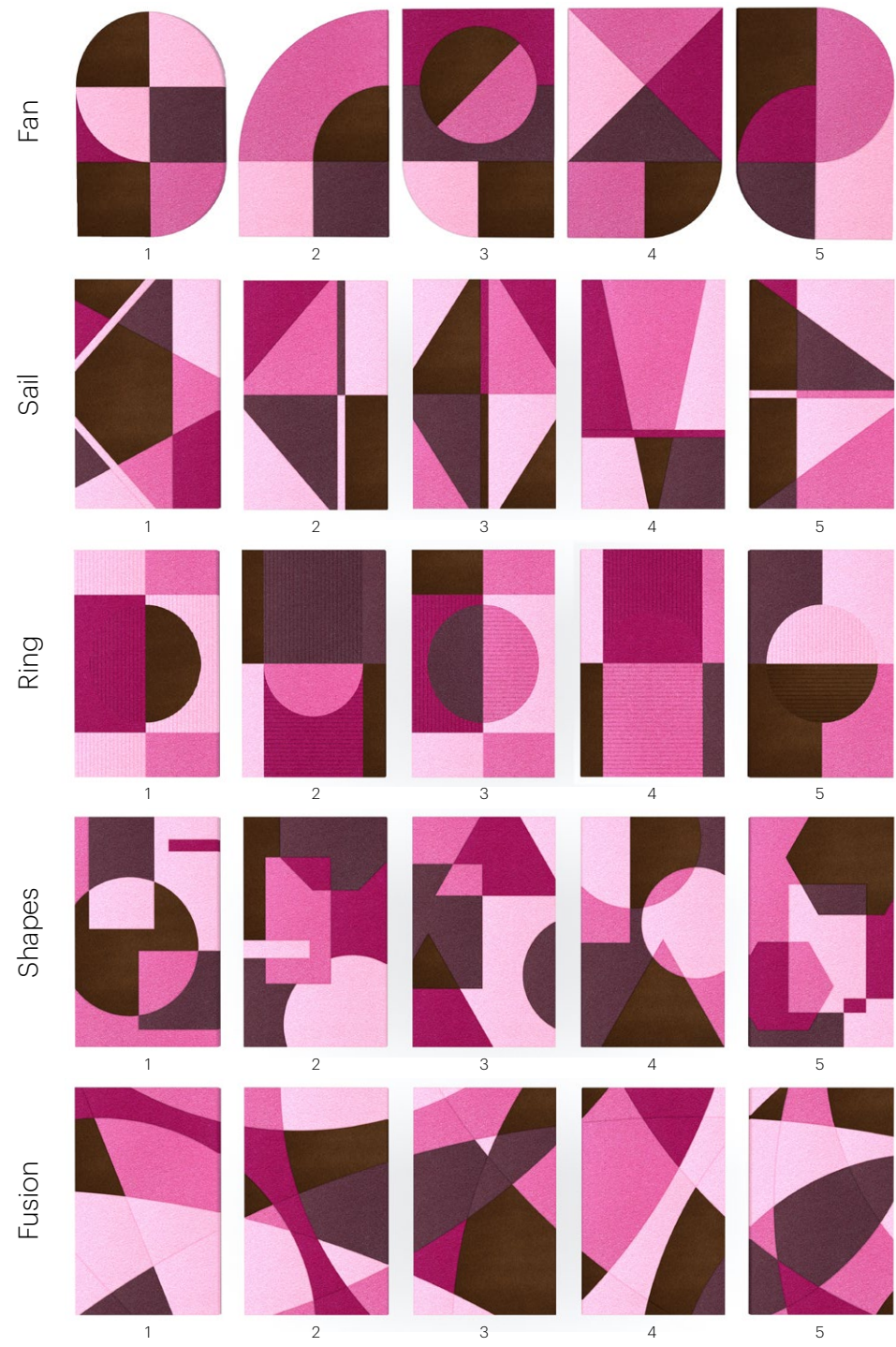


Macaroon





# Macaroon



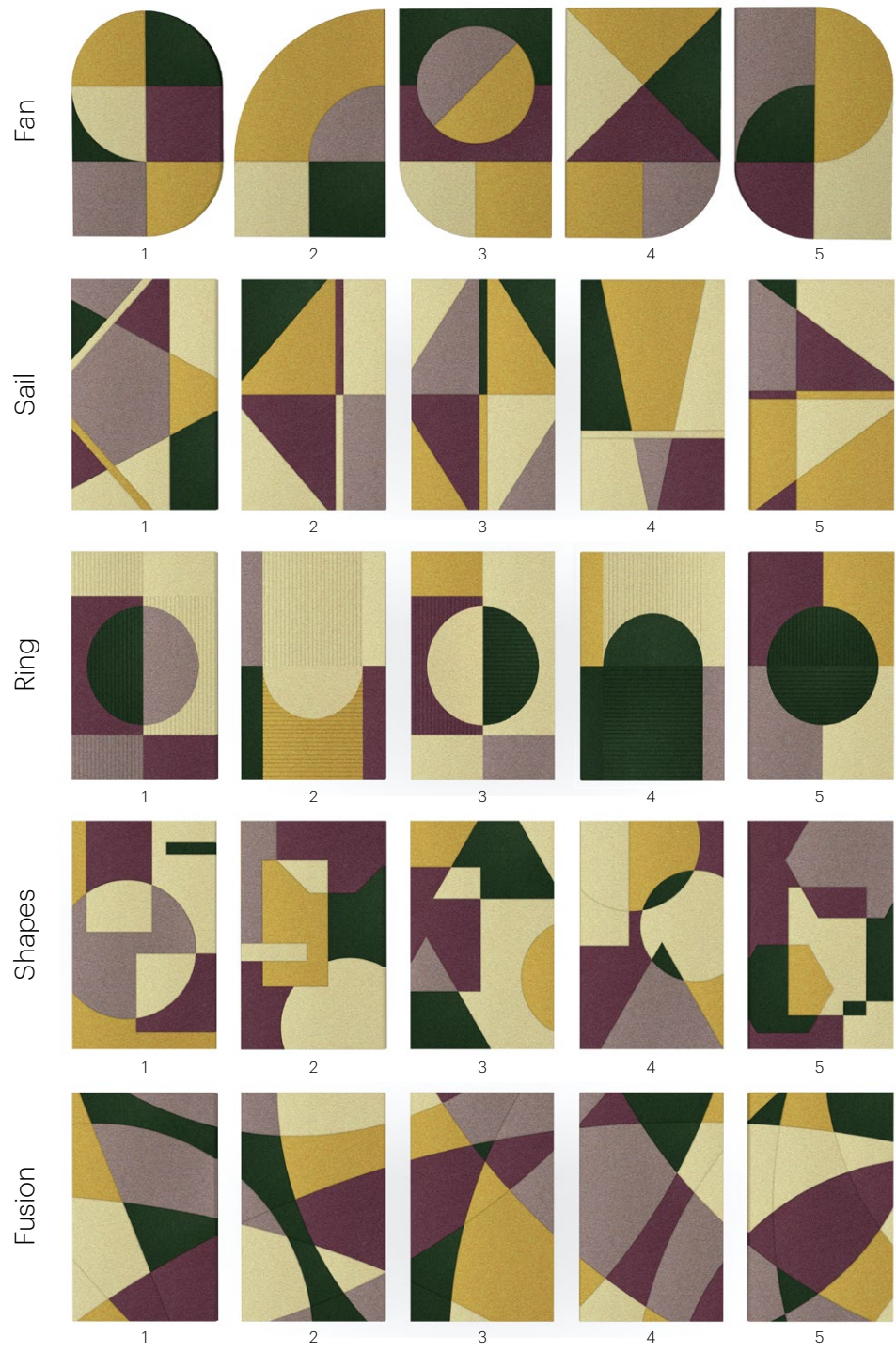
- Rubin Ruby 
- Róża Rose 
- Różowa lemoniada Pink lemonade 
- Merlot Merlot 
- Czekolada Chocolate 



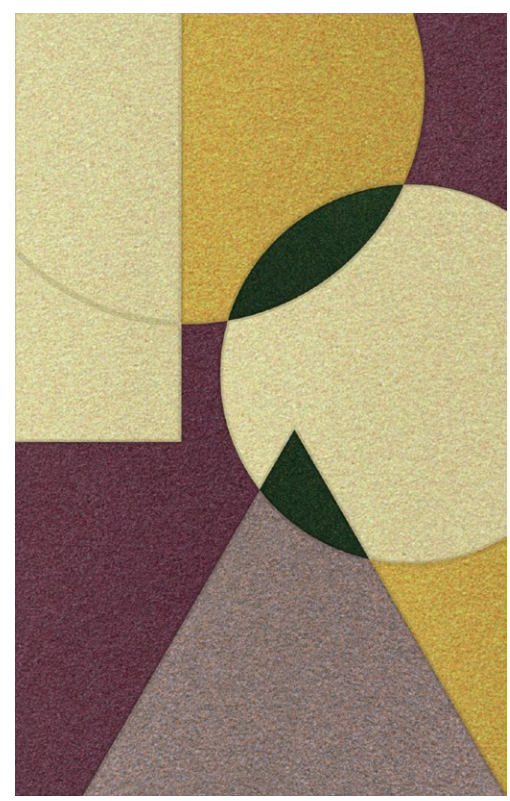


Fig





# Fig



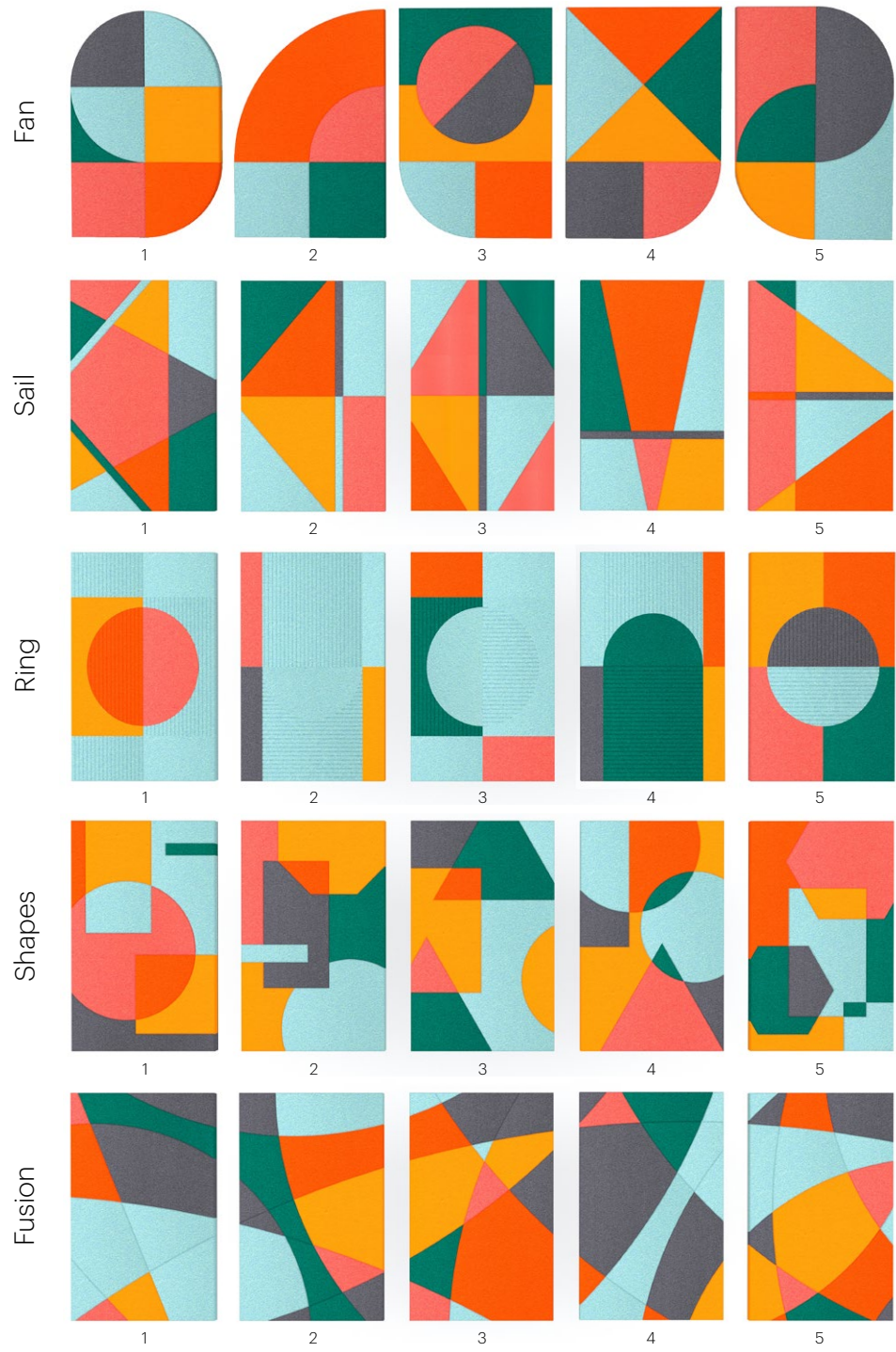
- Mokka ●
- Mocha ●
- Merlot ●
- Sosnowy ●
- Pine green ●
- Płowy ●
- Fawn ●
- Ostrygowy ●
- Oyster ●



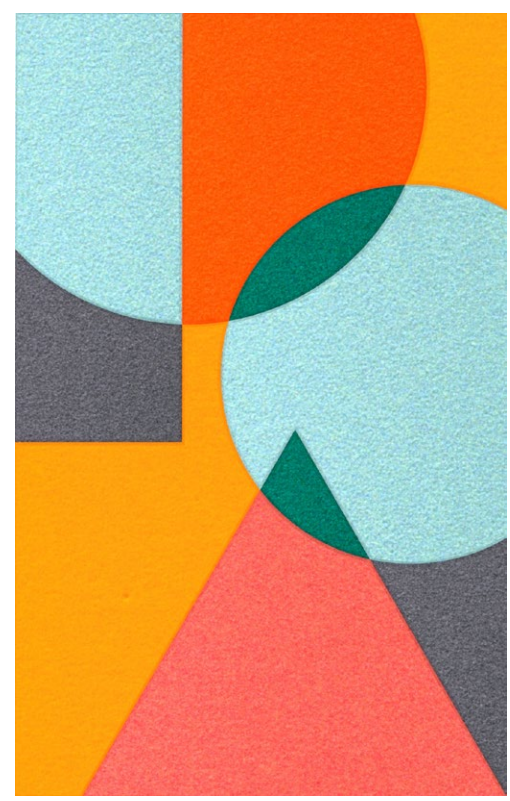


Energy





# Energy



- Ołowiany Lead
- Karaibski Caribbean
- Szmaragd Emerald
- Terakota Terra cotta
- Złocisty Golden
- Marchew Carrot





## **FLUFFO**

Invented,  
designed  
and produced  
in Poland