

# ACOUSTIC

HARMONY OF LIGHT AND SOUND

# \_Light

builds tomorrow

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SINCE THE YEAR 2000,  
WE HAVE POSITIONED  
OURSELVES AS A  
FRONTRUNNER IN CREATING  
INNOVATIVE LIGHTING  
SOLUTIONS, INSPIRED BY  
DESIGNERS FROM AROUND  
THE WORLD.

Our vision transcends the mere illumination of spaces; we endeavor to craft experiences that enhance quality of life while safeguarding our planet for future generationp

Our solutions are straightforward yet promote ecological sustainability and energy efficiency. Each project represents a progressive step toward development.



#### CONTACT

+48 22 567 01 00  
info@spectra-lighting.pl



#### *We collaborate with companies from:*

- |                          |               |                   |                        |
|--------------------------|---------------|-------------------|------------------------|
| - Saudi Arabia           | - France      | - Kuwait          | - Slovakia             |
| - Armenia                | - Greece      | - Lebanon         | - Slovenia             |
| - Australia              | - Georgia     | - Lithuania       | - Switzerland          |
| - Austria                | - Spain       | - Luxembourg      | - Sweden               |
| - Belgium                | - Netherlands | - Latvia          | - Turkey               |
| - Bosnia and Herzegovina | - India       | - North Macedonia | - Taiwan               |
| - Bulgaria               | - Ireland     | - Moldova         | - Ukraine              |
| - Croatia                | - Israel      | - Norway          | - USA                  |
| - Czech Republic         | - Japan       | - Poland          | - Hungary              |
| - Denmark                | - Jordan      | - Portugal        | - United Kingdom       |
| - Estonia                | - Kazakhstan  | - Romania         | - Italy                |
| - Finland                | - Canada      | - Serbia          | - United Arab Emirates |
|                          | - Qatar       |                   |                        |

At Spectra Lighting, we are progressively aligning our operations with sustainable development. Our strategy involves investing in contemporary, eco-friendly technologies and executing pro-ecological initiatives throughout every phase of production.



## ECOLOGICAL INITIATIVES

We have implemented several measures to minimize our carbon footprint and safeguard natural resources:

### SUSTAINABLE ENERGY

facilities equipped with photovoltaic panels

### CLOSED HYDROLOGICAL CYCLE

closed washing cycle in production processes, reducing water usage and contamination

### MATERIAL RECYCLING

systematic recovery of materials such as powder coatings, aluminum, and PET plastics



## INNOVATION AND FUTURITY

We manufacture ecofriendly LED lighting, construct energy-efficient production facilities, and proactively enhance logistics to minimize CO<sub>2</sub> emissions.



## SOCIAL AND PRACTICAL ENGAGEMENT

We offer a secure working environment, equitable pay, and opportunities for ongoing professional development. We support local social initiatives, including sports teams, to promote a healthy lifestyle and foster community integration.

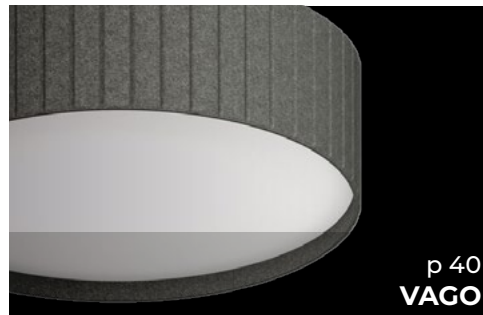
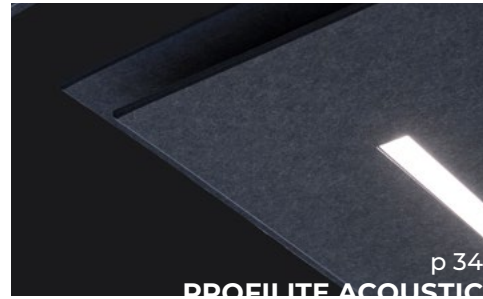
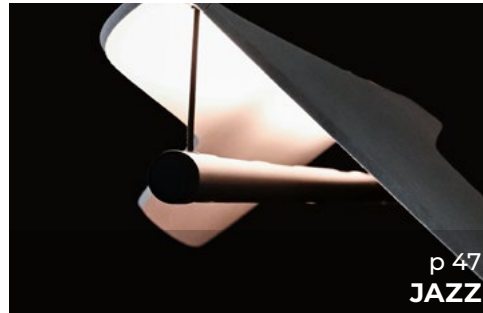
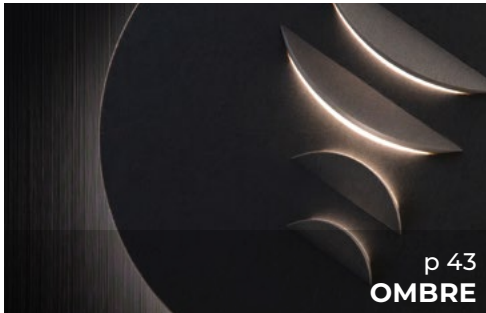


## TRANSPARENCY AND ETHICS

We adhere to international ethical standards as outlined in our Code of Ethics and Code of Conduct. These documents are available at: [www.spectra-lighting.pl](http://www.spectra-lighting.pl)



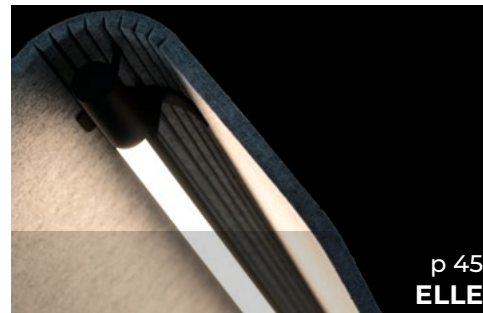




# Acoustic Eco Felt

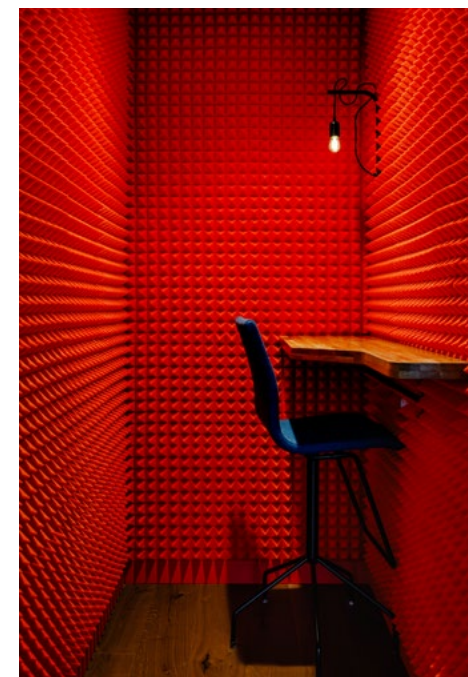
**Noise reduction and acoustic optimization should be harmoniously integrated with contemporary design.**

Modern interiors prioritize not only aesthetic appeal but also acoustic comfort. In environments such as offices, hotels, and restaurants, visual appearance is crucial, yet sound quality is equally significant. Acoustic lighting emerges as an innovative solution that seamlessly combines aesthetics, effective illumination, and noise reduction, thereby creating spaces that promote productivity, relaxation, and meaningful conversation.





**The Brain Embassy** Warsaw, Poland  
**Architect** Archicon Szczesiuk&Wilczek s.c.  
**Investor** Adgar Investments & Development Ltd  
**Photographer** Adam Grzesik  
**Retina** Elegance Colours; 953 (IN) 27 (OUT)

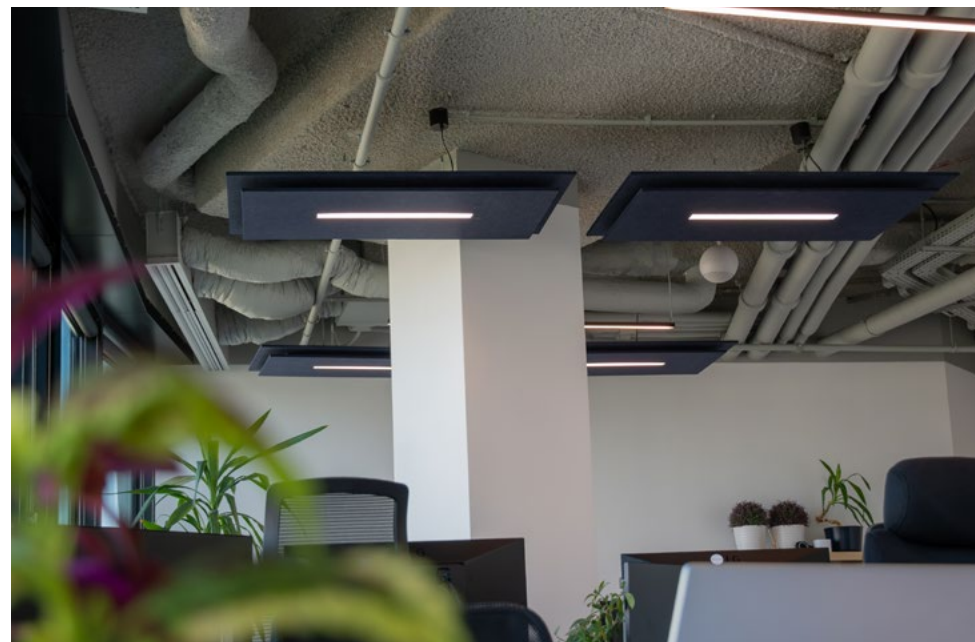






**Profitia** Warsaw, Poland  
**Investor** Profitia  
**Architect** Concept Space  
**Photographer** Rafal Klos  
**PL EC 45 Acoustic** Classic Colours: DENIM





**Profitia** Warsaw, Poland  
**Investor** Profitia  
**Architect** Concept Space  
**Photographer** Rafal Kłos, Eryka Rakoczy  
**PL EC 45 Acoustic** Classic Colours; DENIM  
**HOLY** Elegance Colours; 44/18 (OUT)

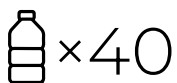




# Design that protects the planet

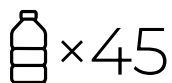
Each panel means 120 fewer PET bottles in landfills – a small step for interior design, a big step for the planet.

Acoustic panels serve as modern elements that seamlessly blend aesthetics with ecological sustainability. Comprising at least 70% recycled materials, these panels not only improve interior acoustics but also add a unique character to the space.



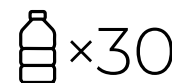
## Classic Colours 12mm

≈40 bottles/kg  
100% PET | 70% recycled



## Harmony Colours 1,75-5mm

≈45 bottles/kg  
100% PET | ≥ 90% recycled



## Elegance Colours ≥4mm

≈30 bottles/kg  
100% PET | 96% recycled

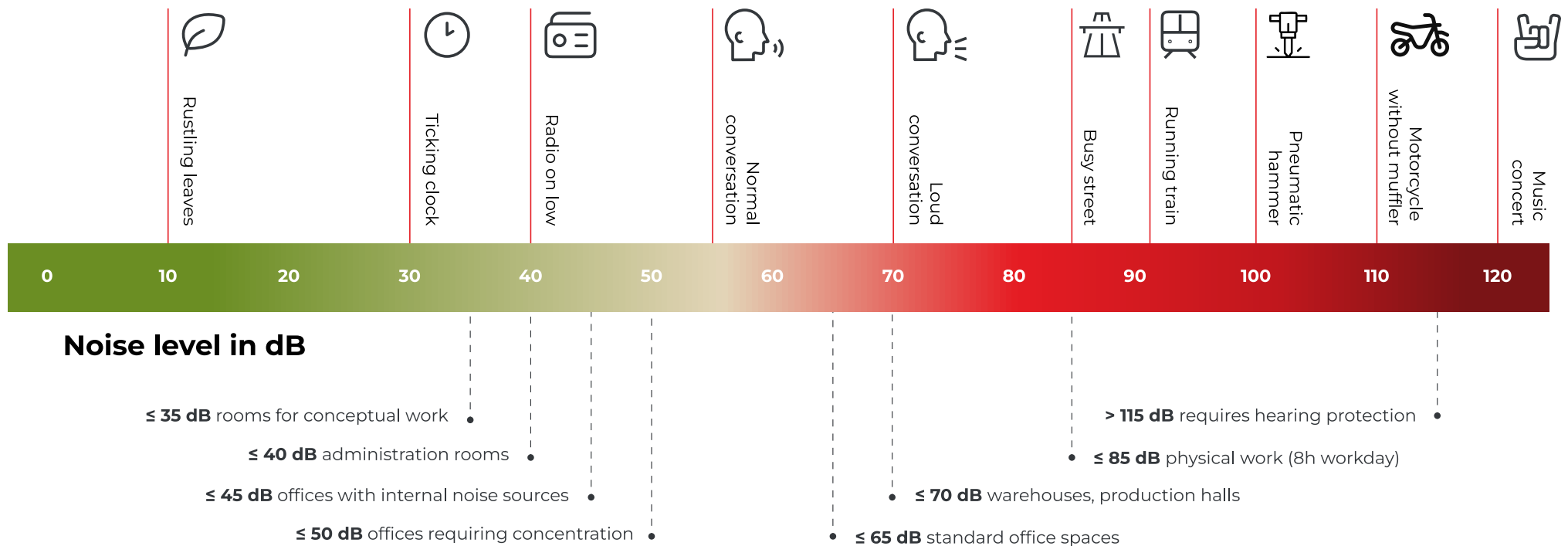


Why does  
**acoustic matter?**



# Acoustic Smog

According to the World Health Organization (WHO), noise pollution is the second most significant environmental cause of poor health among Europeans – right after air pollution.

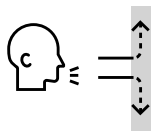


High noise levels and poor acoustics are common issues in the industrialized world. This includes internal noise (from building equipment) and external noise (like traffic noise). Polish standards (PN-N-01307:1994, PN-87/B-02151/02) set safe workplace noise

exposure at a maximum of 85 dB for 8 hours daily. Long-term noise exposure carries significant health risks, including poor sleep, stress, concentration issues, and more serious problems.

# Glossary of acoustic terms

Fundamental concepts in the design of acoustic lighting.



## ABSORPTION

The ability of a material to absorb sound, measured by the NRC coefficient – the higher the value, the better the noise reduction.



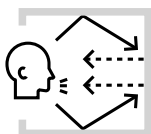
## DECIBEL (DB)

A unit of sound intensity – a comfortable level in office spaces is around 50 dB.



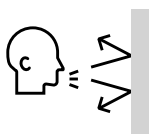
## ACOUSTICS

The science of how sound propagates, is absorbed, and reflects within a space.



## REVERBERATION

Delayed sound caused by multiple reflections – excessive reverberation makes speech harder to understand.



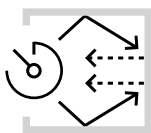
## REFLECTION

Sound waves bouncing off hard surfaces cause reverberation and increase overall noise levels.



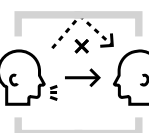
## SPEED OF SOUND

Sound travels at approximately 340 m/s. In a 15-meter room, it can reflect up to 60 times before fading out.



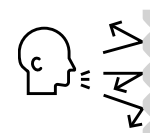
## REVERBERATION TIME (RT60)

The time it takes for sound to decay by 60 dB – if too long, it hinders communication.



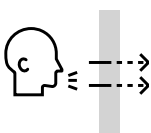
## DIRECT SOUND

The core sound that reaches the listener directly from the source, without any reflection from surrounding surfaces.



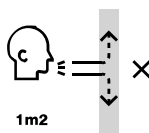
## DIFFUSION

The scattering of sound by irregular surfaces, which improves room acoustics.



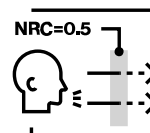
## SOUND INSULATION

Reduction of sound transmission through a material. Improves acoustic comfort in interior spaces.



## ACOUSTIC SHADOW

An area where sound waves do not reach, due to being reflected, scattered, or absorbed by an obstacle in their path.



## NRC

A measure of a material's ability to absorb sound in the speech frequency range – on a scale from 0 to 1; the higher the value, the better the space acoustics.

# HOW DOES IT WORK?

## WHEN FORM MEETS FUNCTION

Contemporary interiors are captivating in their design; however, they frequently obstruct effective communication. The presence of hard, minimalist surfaces can amplify noise, thereby diminishing the comfort of both work environments and meetings.

Acoustic lighting provides a smart solution to these challenges. It seamlessly combines effective lighting with crucial noise and reverberation reduction. Without requiring significant architectural changes, it improves sound quality precisely where you need it most: directly over tables, seating areas, and other key points of interaction.

**Ultimately, integrating acoustic solutions means your space performs better – it's brighter, quieter, and facilitates clearer communication**

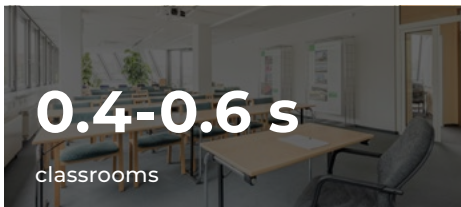




# Acoustic challenges in contemporary environments

While modern designs are visually appealing, they often introduce a prevalent and undesirable challenge: excessive **reverberation**.\* Sound reflects off these hard surfaces, causing it to repeatedly return to our ears and prolonging its decay time. Consequently, speech intelligibility diminishes, leading to a state of acoustic disarray within the environment.

## Different types of spaces require different specific optimal reverberation times (RT60)\*

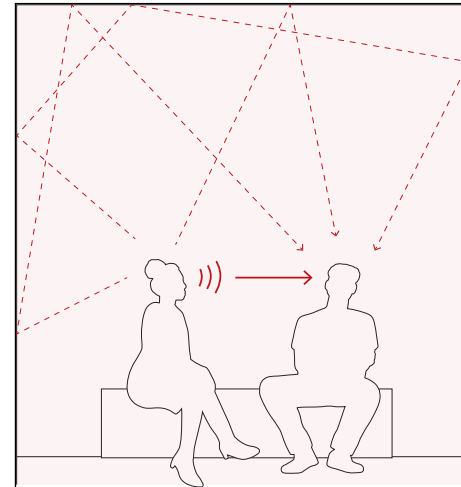


An excessively lengthy **RT60\*** can lead to sound overlap, reduced clarity, and a decrease in communication comfort. In this context, the sound absorption coefficient (**NRC**)\* is essential, with values ranging from 0 (indicating complete reflection) to 1 (indicating complete absorption). In contrast, traditional lighting fixtures typically have an NRC of 0.

Equally significant is **direct sound**,\* as it carries the most information and is essential for speech intelligibility. In environments with excessive reflections, this clear transmission can become distorted. Therefore, effective interior acoustics must not only reduce reverberation but also protect and enhance direct sound, thereby allowing users to communicate naturally and comfortably.

**The surface area of sound-absorbing materials\*** is also crucial, as the overall sound absorption depends on both the Noise Reduction Coefficient (NRC) and the size of the surface. Sound-absorbing elements, constructed from fine, flexible fibers, absorb a portion of the energy from sound waves through the **micro-movement of the fibers**.\* This process reduces the number of reflections and shortens the reverberation time.

*\*For definition of terms used please refer to the [acoustic glossary on page 12](#) ->*

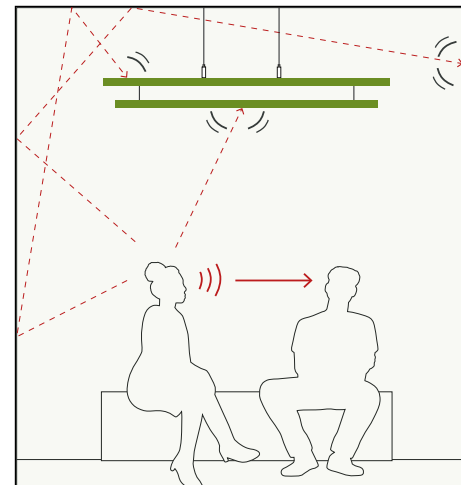


**1 s**

Reverberation time  
NRC=0

## LACK OF SOUND ABSORPTION

In rooms with hard surfaces, sound waves reflect multiple times, causing reverberation and increased noise levels.



**0.6 s**

Reverberation time  
NRC=0.4

## APPLICATION OF ACOUSTIC ELEMENTS

Special absorbent materials reduce sound reflections, improving acoustic comfort in the space.

# ACOUSTIC

We combine effective sound absorption with modern design and precise light. This makes them an ideal choice for high-traffic areas. They support well-being and improve acoustic comfort.



## **SOUND ABSORPTION**

UNE-EN ISO 354:  $\alpha_W = 0,15$  (H)  
EN ISO 11654: Class E



## **FIRE CLASS**

EN 13501-1: B-s1, d0 or B-s2, d0  
ASTM E84 (2018): Class A



## **DURABILITY**

UNE-EN 14465+A1: Class A  
ISO 12947-2/AC



## **ENVIRONMENT**

ISO 9001  
BREEAM / LEED  
REACH  
ZDHC  
OEKO-TEX 100







Select your

# COLOUR



01

# Classic Colours

Classic acoustic panels are made from high-quality PET material sourced from recycling.

Materials and colours create an ambiance, establish a mood, and define the character of a space. The Classic palette serves as a timeless foundation for any project—ranging from offices to commercial and private spaces. It also offers the opportunity to create custom designs through V-cut technology.

**See the expanded offer on p.50 ->**



Colours for **12 mm thick** felt

## SPECIFICATION

MATERIAL	100% PET 70% recycled PET 30% biocomponents
DIMENSIONS [mm]	3050 x 1250 x 12
WEIGHT [kg]	9,15
DENSITY [kg/m2]	2,4
ACOUSTIC PROPERTIES	NRC = 0.40 – 1.00
CERTIFICATES	ISO 9001:2015 GRS VOC declaration Product safety declaration Fire resistance certificate
FIRE RESISTANCE CLASS	B-s2, d0
V-CUT	yes



## ACOUSTIC PROPERTIES

Thanks to their properties, PET panels are an eco-friendly and effective alternative to traditional sound-absorbing materials, offering not only efficient noise reduction but also a modern appearance and high durability.

### SOUND ABSORPTION

PET panels reduce reverberation by absorbing the energy of sound waves — particularly in the mid and high frequency ranges. As a result, they improve acoustic conditions within the space and enhance speech intelligibility by preserving direct sound.\*

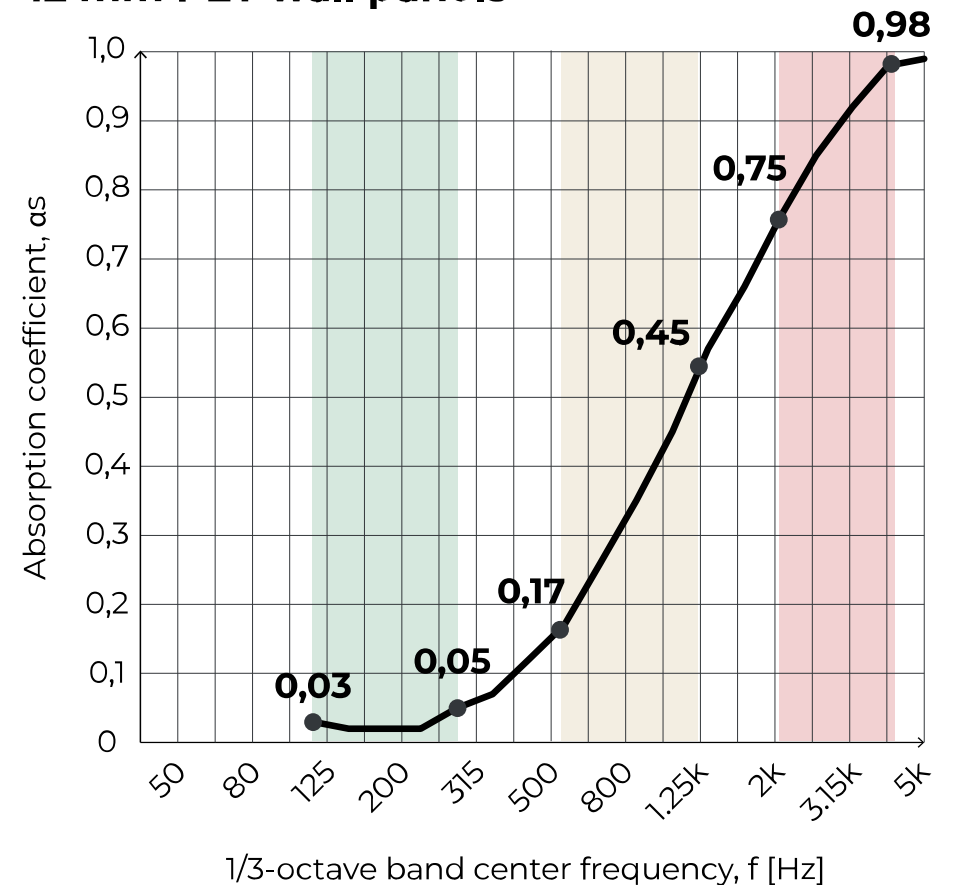
### NRC (NOISE REDUCTION COEFFICIENT)

For panels with a thickness of 12 mm, the Noise Reduction Coefficient (NRC)\* typically reaches up to 0.55, depending on installation conditions.

### FREQUENCY RANGE

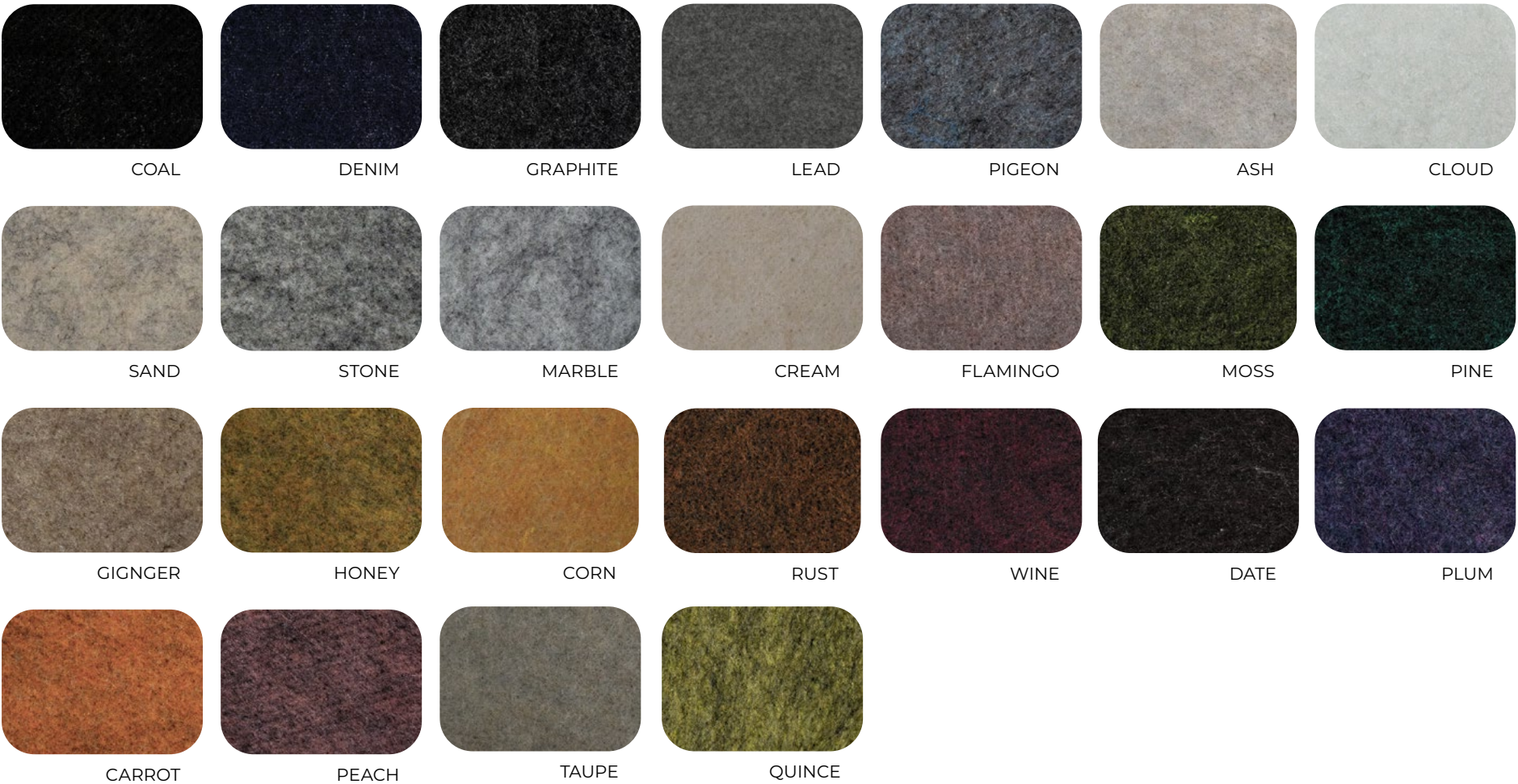
The panels are most effective at absorbing sound in the mid to high frequency range — which includes the types of noise most commonly generated by speech and electronic equipment. This makes them an ideal solution for offices, conference rooms, recording studios, and cinemas.

## Sound absorption coefficient of 12 mm PET wall panels



- low frequencies** (low absorption)
- medium frequencies** (medium absorption)
- high frequencies** (very good absorption)

\*Not familiar with all terms? See the [acoustic glossary on p. 12](#) ->



PLEASE NOTE: The actual product colour may vary from the images shown on our website. Returns based solely on colour discrepancy will not be accepted.



02

# Harmony Colours

Harmonic cladding is a lightweight, durable PET material designed specifically for modern interiors.

Its varied textures and rich colour palette allow for the creation of unique design schemes — perfect for applications ranging from offices and hotels to creative spaces and auditoriums. Harmonic provides effective noise reduction, is fire-retardant, abrasion-resistant, and fully recyclable. It's a conscious choice for projects that successfully combine aesthetics, safety, and environmental responsibility.

## SPECIFICATION

MATERIAL	100% PET 90% recycled PET
ACOUSTIC PROPERTIES	UNE-EN ISO 354: αW = 0,15 (H) EN ISO 11654: Class E
CERTIFICATES	RoHS and REACH compliant OEKO-TEX® 100 EPD® LEED v.4 BREEAM low VOC
FIRE RESISTANCE CLASS	PN-EN 13501-1+A1: B-s1, d0 ASTM E-84-18: Class A
COLOUR FASTNESS TO LIGHT	PN-EN ISO 105-B02: 3-7
ABRASION RESISTANCE	UNE-EN 14465 A1: Class A ISO 12947-2 / AC: >50 000 cycles
V-CUT	no

### HARMONY 200

DENSITY [kg/m2] 0.2

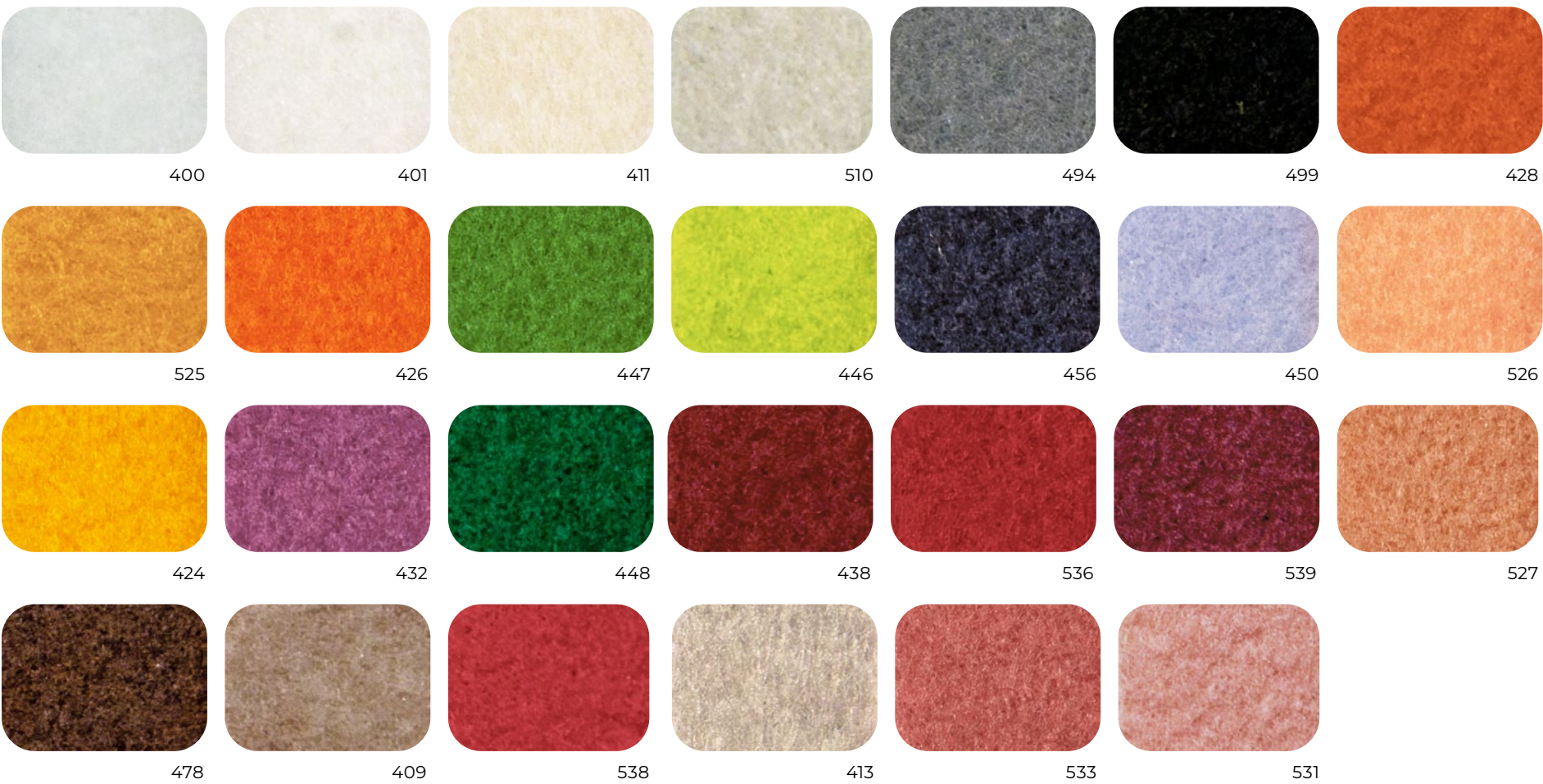
### HARMONY 500

DENSITY [kg/m2] 0.5

### HARMONY 800

DENSITY [kg/m2] 0.8





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400ML



401ML



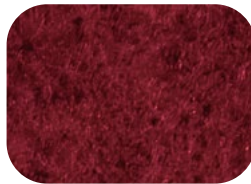
502ML



494ML



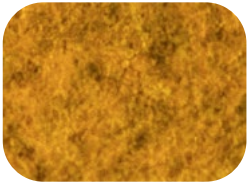
408ML



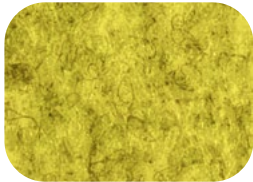
438ML



409ML



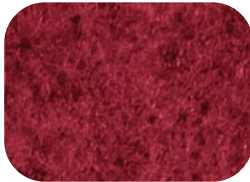
424ML



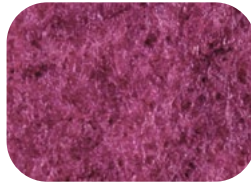
423ML



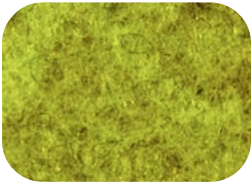
496ML



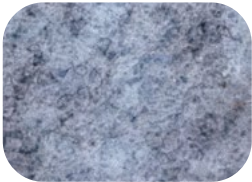
538ML



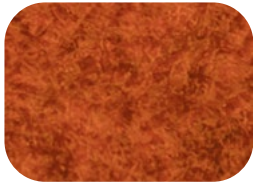
432ML



446ML



450ML



426ML



526ML

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03

# Elegance Colours

**Natural felt with a dense, refined structure provides excellent acoustic properties and an elegant aesthetic.**

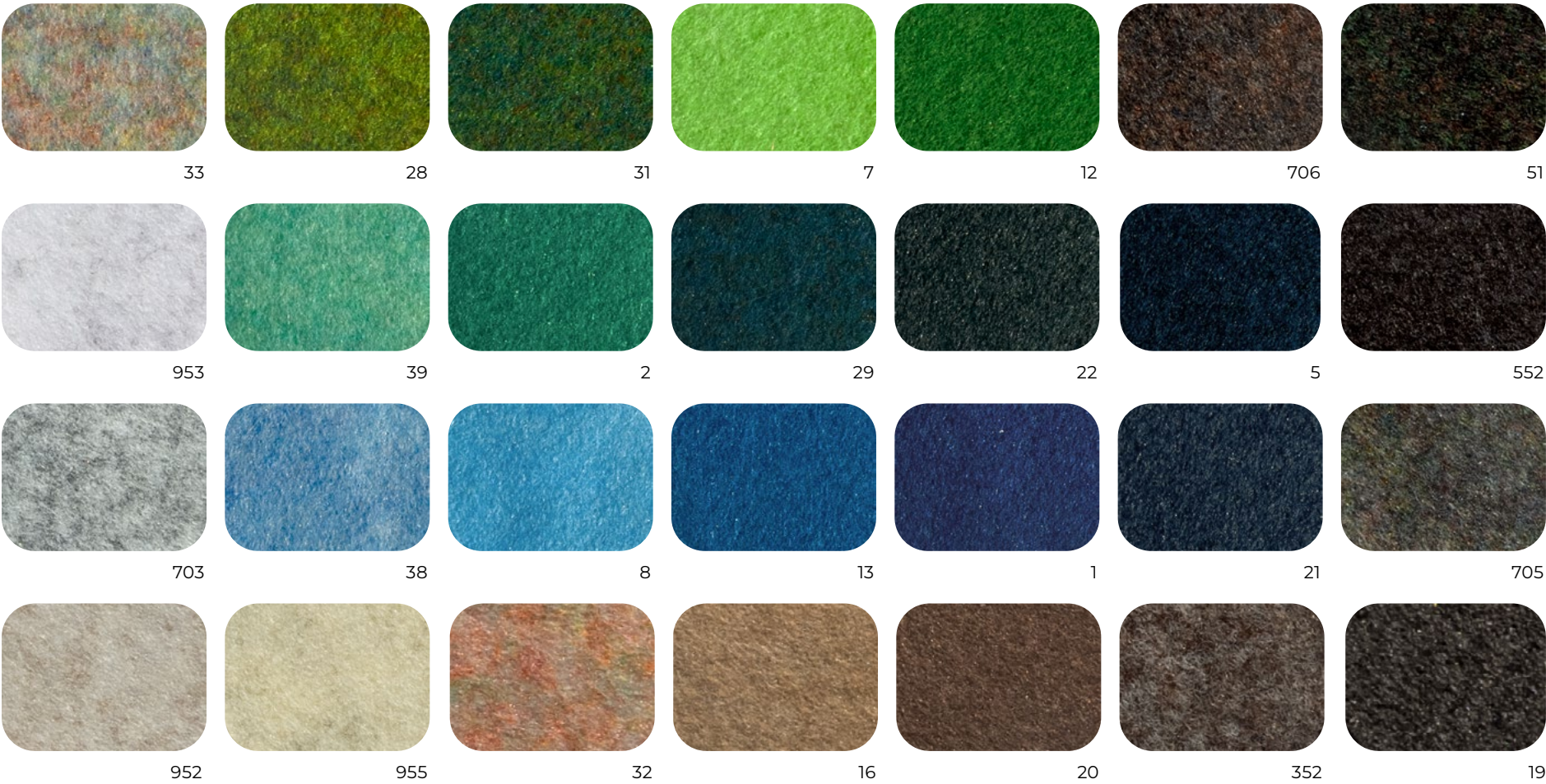
Elegance Colours represent a fusion of tradition and innovation. They are created in the spirit of sustainability – utilizing natural or recycled fibers, with no water used in the production process. This makes them an ideal choice for interiors where both beauty and responsibility are paramount.

## SPECIFICATION

MATERIAL	100% PET	<b>MONO PETT</b>	DENSITY [kg/m2]	0,4
	96% recycled PET			
CERTIFICATES	ISO 9001:2015	<b>PETT</b>	DENSITY [kg/m2]	0,4
	ISO14001:2015			
	REACH Compliance			
	GRS 2019-017			
	LEED			
	BREEAM			
V-CUT	4Sustainability: 4S-100092			
	ZDHC			

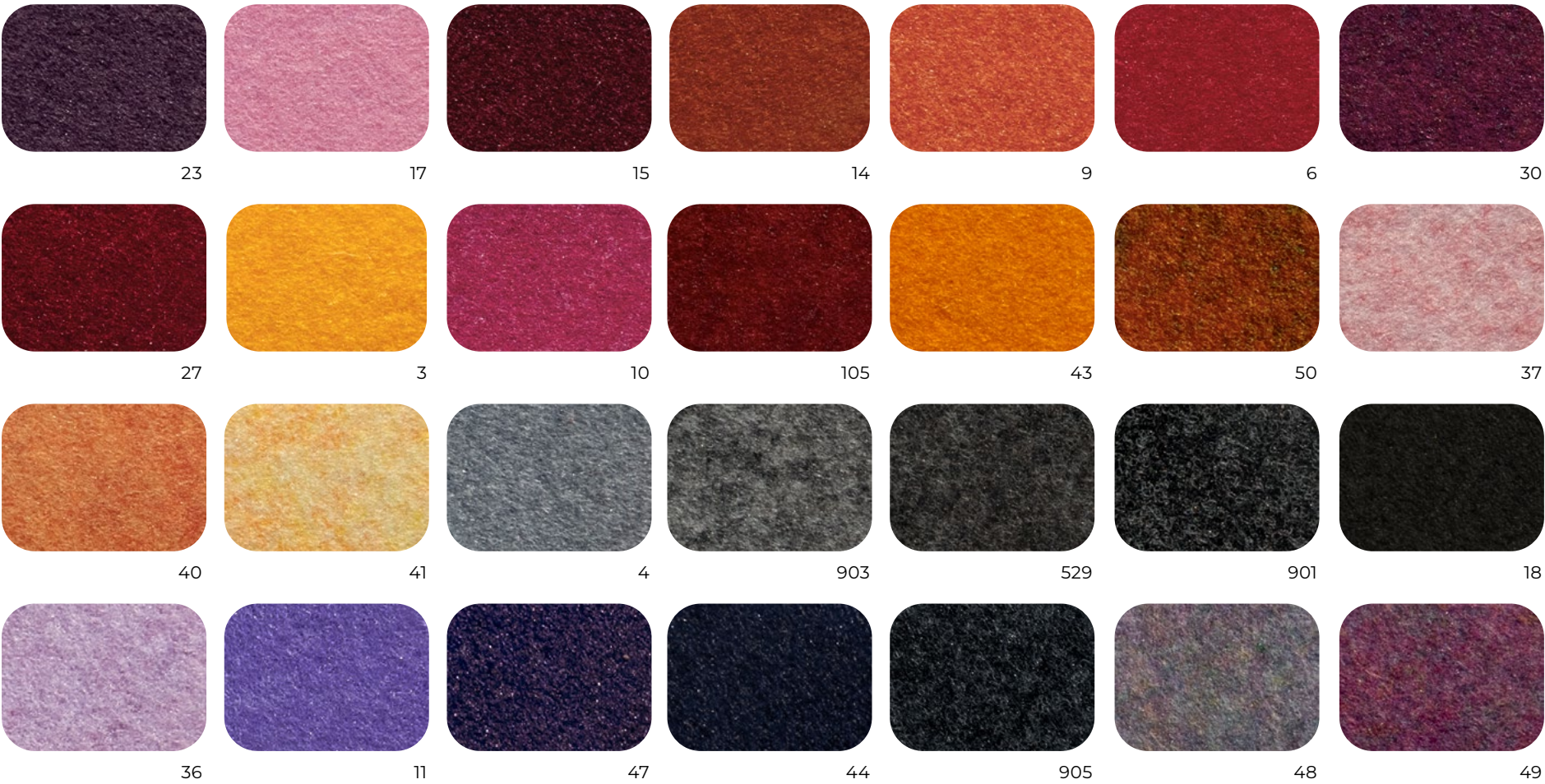






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Light  
That  
Listens

## DESCRIPTION

The version of the luminaire with acoustic felt. It is required to order a dedicated acoustic housing available as an accessory.

## APPLICATION

offices, shops, entrance lobbies, apartments

## HOUSING

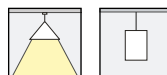
aluminum (cast), felt

## POWER SUPPLY

electronic, complete with luminaire

## OTHER

The felt colour must be selected from the Harmony or Elegance palette. The luminaire comes complete with a ceiling rose and a black braided power cable, length L = 3000 mm.



## HOLY 550 ACOUSTIC

11.116.310...

LUMINAIRE POWER [W]	34 - 71
LUMINAIRE LUMINOUS FLUX [lm]	3650 - 7200
DISTRIBUTION ANGLE [°]	80
COLOUR TEMPERATURE [K]	3000, 4000
LIFETIME LXX BXX	L90B20@50.000h
DIAMETER D [mm]	550
THE COLOUR OF THE HOUSING	RAL9016 (white), RAL9005 (black) <i>+on order</i>



**HOUSING TYPE IN**  
12.116.3802.XXX



**HOUSING TYPE OUT**  
12.116.3801.XXX



**HOUSING TYPE IN+OUT**  
12.116.3803.XXX

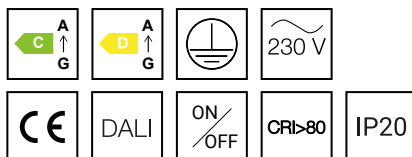
## Harmony Colours



## Elegance Colours



## 2 in the picture(OUT)

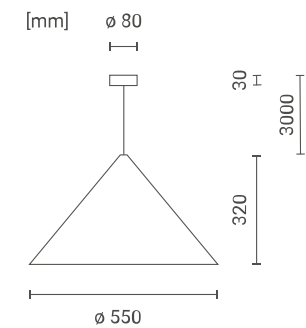


\_suspended





**The Brain Embassy** Warsaw, Poland  
**Architect** Archicon Szczesiuk&Wilczek s.c.  
**Investor** Adgar Investments & Development Ltd  
**Photographer** Adam Grzesik  
**HOLY** Elegance Colours; 905 (IN+OUT)



## DESCRIPTION

Luminaire with acoustic felt. A dedicated acoustic enclosure is required, available as an accessory

## APPLICATION

offices, common areas, relaxation areas, halls

## HOUSING

aluminum, felt

## POWER SUPPLY

electronic, complete with luminaire

## OTHER

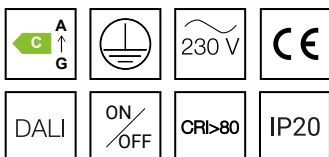
Option to personalize the V-Cut pattern on the felt and choose a colour from the Classic palette. For complete installation, appropriate electrical and mechanical suspension (2x) must be selected.



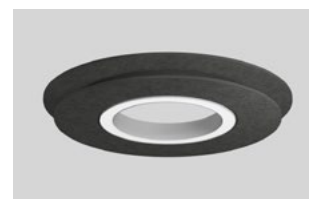
## ARC 60 ACOUSTIC

11.141.300...

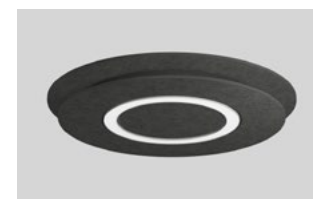
LUMINAIRE POWER [W]	26-80
LUMINAIRE LUMINOUS FLUX [lm]	2650-7900
DISTRIBUTION ANGLE [°]	102
COLOUR TEMPERATURE [K]	3000, 4000
LIFETIME LXX BXX	L90B10@60.000h, L80B10@75.000h
DIAMETER D [mm]	600
THE COLOUR OF THE HOUSING	RAL9016 (white), RAL9005 (black) +on order



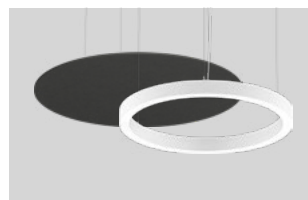
PANEL IN  
12.141.3801.XXX



PANEL OUT  
12.141.3802.XXX



PANEL IN+OUT  
12.141.3803.XXX

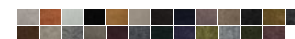


PANEL SINGLE

V-cut



Classic Colours



LEAD in the picture

\_suspended

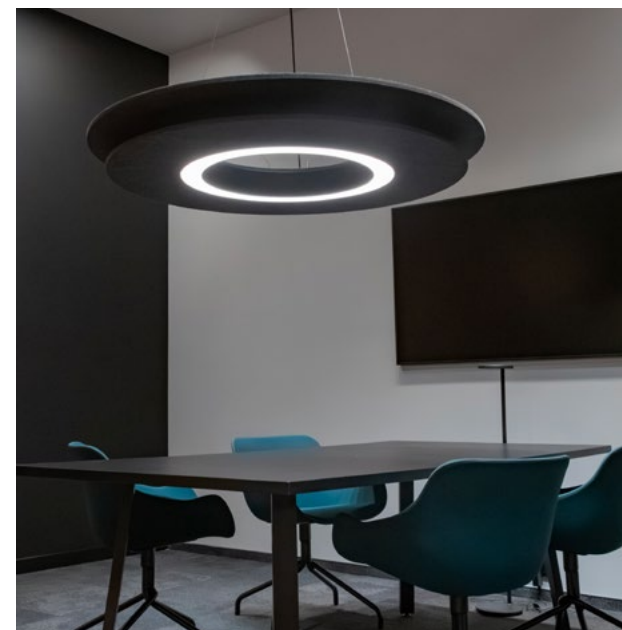
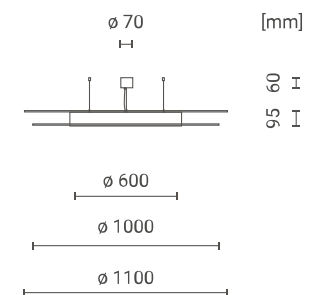




# **ARC 60 ACOUSTIC**

panel IN, OUT

Classic Colours; LEAD



# ESTOS

## APPLICATION

entrance halls, offices, conference rooms,  
private apartments

## HOUSING

aluminum, felt

## POWER SUPPLY

electronic, included with the luminaire

## OTHER

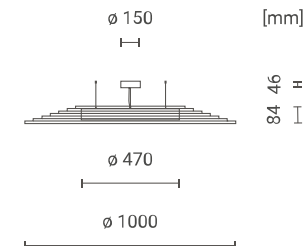
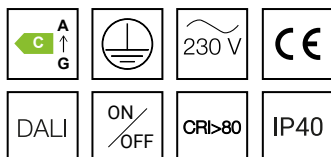
Option to personalize the V-Cut pattern on  
the felt and choose a colour from the Classic  
palette. For complete installation, appropriate  
electrical and mechanical suspension (3x)  
must be selected.



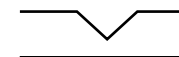
## ESTOS

10.186.0002.0...

LUMINAIRE POWER [W]	50
LUMINAIRE LUMINOUS FLUX [lm]	5200-6300
DISTRIBUTION ANGLE [°]	100
COLOUR TEMPERATURE [K]	3000, 4000
LIFETIME LXX BXX	L80B10@75.000h
DIAMETER D [mm]	470
THE COLOUR OF THE HOUSING	RAL9016 (white), RAL9005 (black) <i>+on order</i>



V-cut



Classic Colours



**CARROT** in the picture

\_suspended

ESTOS

www.spectra-lighting.pl

## DESCRIPTION

Luminaire version with acoustic felt. A dedicated acoustic housing, available as an accessory, is required for installation.

## APPLICATION

entrance halls, offices, conference rooms, private apartments

## HOUSING

aluminum, felt

## POWER SUPPLY

electronic, complete with luminaire

## OTHER

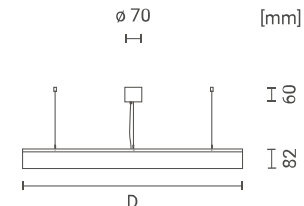
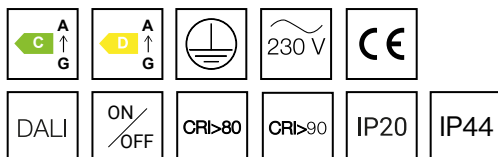
The felt colour must be selected from the Harmony or Elegance palette. For complete installation, appropriate electrical and mechanical suspension (2x) must be selected.



## AVALANGE EC ACOUSTIC

08.182.31...

LUMINAIRE POWER [W]	50 - 125
LUMINAIRE LUMINOUS FLUX [lm]	4950 - 12300
DISTRIBUTION ANGLE [°]	100, 104
COLOUR TEMPERATURE [K]	3000, 4000
LIFETIME LXX BXX	L80B10@75.000h, L80B10@60.000h
DIAMETER D [mm]	470, 590, 870
THE COLOUR OF THE HOUSING	RAL9016 (white), +on order



## Harmony Colours



## Elegance Colours



2 in the picture





**The Brain Embassy** Warsaw,  
Poland

**Architect** Archicon  
Szczesiuk&Wilczek s.c.

**Investor** Adgar Investments  
& Development Ltd

**Photographer** Adam Grzesik

**AVALANGE EC ACOUSTIC**  
Elegance Colours; 2

\_suspended

## DESCRIPTION

Luminaire version with acoustic felt. A dedicated acoustic housing, available as an accessory, is required for installation.

## APPLICATION

offices, common areas, relaxation zones, halls

## HOUSING

aluminum, felt

## POWER SUPPLY

electronic, complete with luminaire

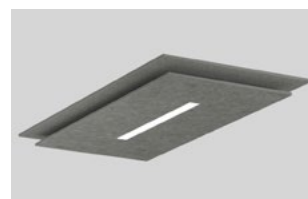
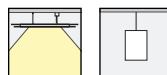
## OTHER

Option to personalize the V-Cut pattern on the felt and choose a colour from the Classic palette. For complete installation, appropriate electrical and mechanical suspension (2x) must be selected.

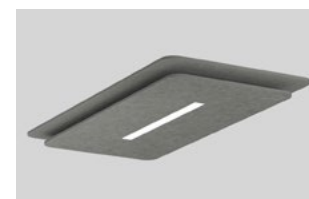
## PROFILITE 45 EC ACOUSTIC

09.413.2...

LUMINAIRE POWER [W]	9-30
LUMINAIRE LUMINOUS FLUX [lm]	850-3400
DISTRIBUTION ANGLE [°]	65
COLOUR TEMPERATURE [K]	3000, 4000
LIFETIME LXX BXX	L80B10@75.000h, L90B10@60.000h
LENGHT L [mm]	561
THE COLOUR OF THE HOUSING	RAL9016 (white), RAL9005 (black), RAL9006 (grey) <i>+on order</i>



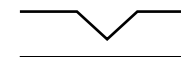
**SHARP CORNER**  
12.413.3802.XXX



**OVAL CORNER**  
12.413.3801.XXX



V-cut

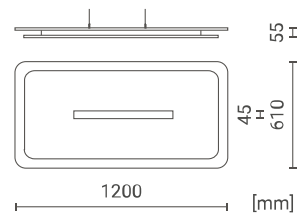


Classic Colours



**DENIM** in the picture





**Profitia** Warsaw, Poland  
**Investor** Profitia  
**Architect** Concept Space  
**Photographer** Rafal Kłos  
**PL EC 45 Acoustic**  
 Classic Colours; DENIM





\_suspended

## DESCRIPTION

Luminaire version with acoustic felt. A dedicated acoustic housing, available as an accessory, is required for installation.

## APPLICATION

offices, common areas, relaxation zones, halls

## HOUSING

aluminum, felt

## POWER SUPPLY

electronic, complete with luminaire

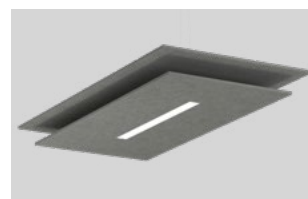
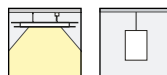
## OTHER

Option to personalize the V-Cut pattern on the felt and choose a colour from the Classic palette. For complete installation, appropriate electrical and mechanical suspension (2x) must be selected.

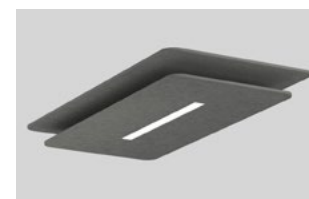
## PROFILITE 45 DOUBLE ACOUSTIC

09.424.2...

LUMINAIRE POWER [W]	9-28
LUMINAIRE LUMINOUS FLUX [lm]	1050-3550
DISTRIBUTION ANGLE [°]	68, 70, 90
COLOUR TEMPERATURE [K]	3000, 4000
LIFETIME LXX BXX	L90B10@60.000h, L80B10@75.000h
LENGHT L [mm]	561
THE COLOUR OF THE HOUSING	RAL9016 (white), RAL9005 (black), RAL9006 (grey) <i>+on order</i>



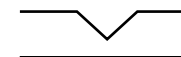
**SHARP CORNER**  
12.424.3802.XXX



**OVAL CORNER**  
12.424.3801.XXX



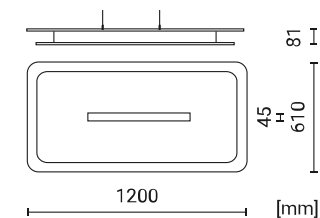
V-cut



Classic Colours



**LEAD** in the picture



**Quest** Warsaw, Poland  
**PL 45 DOUBLE ACOUSTIC**  
 Classic Colours; LEAD

# EDEN

## APPLICATION

entrance halls, offices, conference rooms,  
private apartments

## HOUSING

aluminum, felt

## POWER SUPPLY

electronic, included with the luminaire

## OTHER

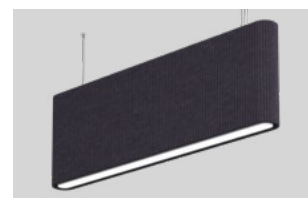
Option to personalize the V-Cut pattern on  
the felt and choose a colour from the Classic  
palette. For complete installation, appropriate  
electrical and mechanical suspension (2x)  
must be selected.



## EDEN

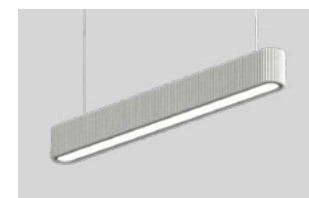
09.184.00...

LUMINAIRE POWER [W]	32
LUMINAIRE LUMINOUS FLUX [lm]	3150-3900
DISTRIBUTION ANGLE [°]	90
COLOUR TEMPERATURE [K]	3000, 4000
LIFETIME LXX BXX	L90B10@60.000h
LENGHT L [mm]	1178
THE COLOUR OF THE HOUSING	RAL9016 (white), RAL9005 (black), <i>+on order</i>



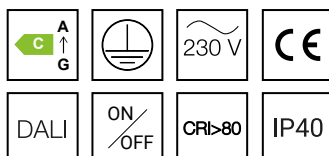
HOUSING H=400 mm

12.168.XXXX.XXX



HOUSING H=125mm

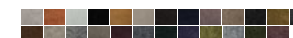
12.168.XXXX.XXX



V-cut



Classic Colours



ASH in the picture

\_suspended

EDEN

www.spectra-lighting.pl

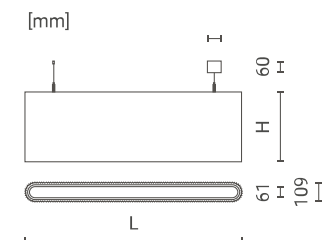




# EDEN

H=125mm

Classic Colours; ASH



**DESCRIPTION**

Luminaire version with acoustic felt

**APPLICATION**

entrance halls, offices, conference rooms,  
private apartments

**HOUSING**

aluminum, felt

**POWER SUPPLY**

electronic, complete with luminaire

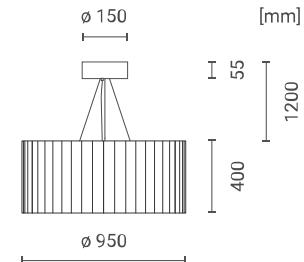
**OTHER**

Felt housing colour according to the Classic palette. The luminaire comes complete with a suspension set, length L = 1200 mm.

**VAGO ACOUSTIC**

08.177.0001.01.9...

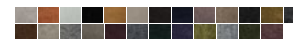
LUMINAIRE POWER [W]	74
LUMINAIRE LUMINOUS FLUX [lm]	9200-10000
DISTRIBUTION ANGLE [°]	104
COLOUR TEMPERATURE [K]	3000, 4000
LIFETIME LXX BXX	L90B10@60.000h
DIAMETER D [mm]	950
THE COLOUR OF THE HOUSING	RAL9016 (white) +on order



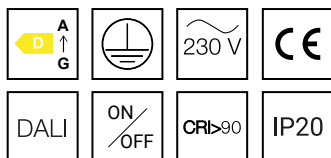
V-cut



Classic Colours



ASH in the picture



\_suspended

# DAISY

## DESCRIPTION

A dedicated acoustic housing, available as an accessory, must be ordered. The panels can be ordered separately or as a set with Daisy 80.

## APPLICATION

shops, museums, exhibitions, accent lighting

## HOUSING

aluminum

## POWER SUPPLY

electronic, included with the luminaire

## OTHER

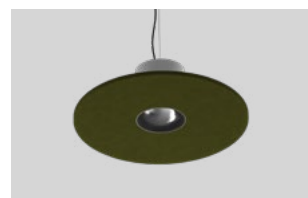
Felt housing colour according to the Classic palette. The luminaire comes complete with a suspension set, length L = 1200 mm.



## DAISY 80 ACOUSTIC

04.178.30...

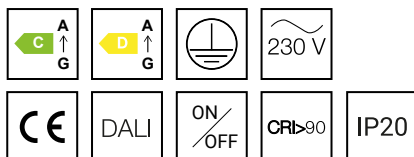
LUMINAIRE POWER [W]	28
LUMINAIRE LUMINOUS FLUX [lm]	2500-2950
DISTRIBUTION ANGLE [°]	18, 26, 35, 36, 42, 58
COLOUR TEMPERATURE [K]	3000, 3500, 4000
LIFETIME LXX BXX	L80B10@50.000h
DIAMETER D [mm]	DO 1200
THE COLOUR OF THE HOUSING	RAL9016 (white), RAL9005 (black), +on order



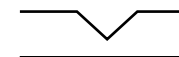
EVEN  
D=600/800/1000 mm



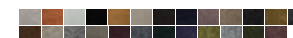
SUSPENDED  
D=600/800/1000 mm



V-cut



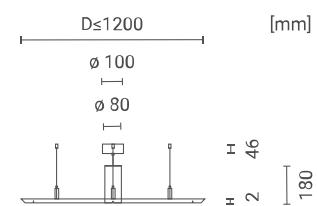
Classic Colours



QUINCE in the picture

\_suspended





**Daisy 80 Acoustic**  
 Classic Colours; QUINCE, LEAD

# OMBRE

## APPLICATION

entrance halls, offices, shops, private apartments

## HOUSING

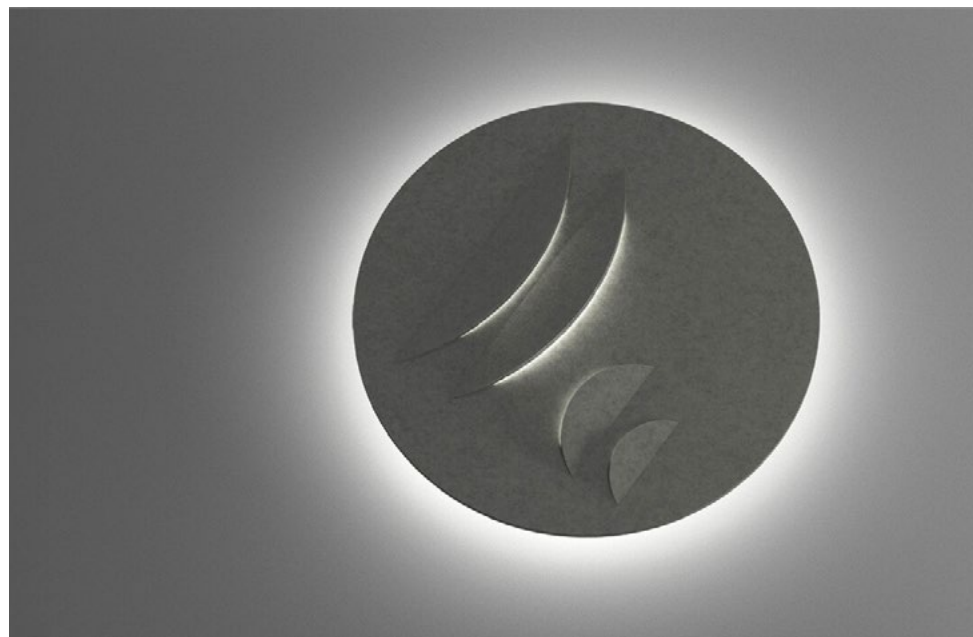
aluminum, felt

## POWER SUPPLY

electronic, included with the luminaire

## OTHER

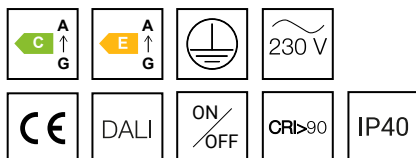
Option to personalize the V-Cut pattern on the felt and choose a colour from the Classic palette.



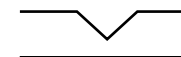
## OMBRE

10.185...

LUMINAIRE POWER [W]	90-181
LUMINAIRE LUMINOUS FLUX [lm]	5350-1200
COLOUR TEMPERATURE [K]	3000, 4000
LIFETIME LXX BXX	L90B10@60.000h
DIAMETER D [mm]	675, 900, 1200
THE COLOUR OF THE HOUSING	RAL9005 (black) +on order



V-cut



Classic Colours



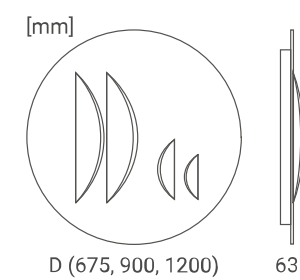
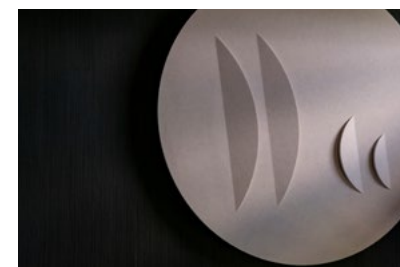
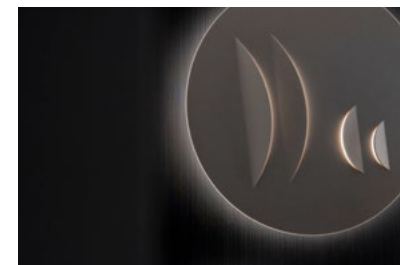
STONE in the picture

\_wall

OMBRE

www.spectra-lighting.pl

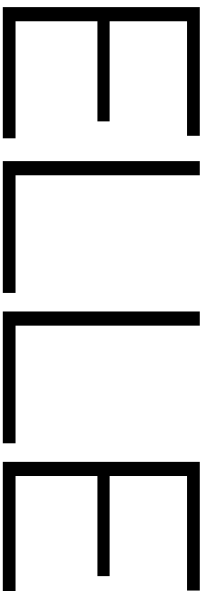




**OMBRE**  
Classic Colours; STONE

[www.spectra-lighting.pl](http://www.spectra-lighting.pl)





#### APPLICATION

entrance halls, offices, conference rooms,  
private apartments

#### HOUSING

aluminum, felt

#### POWER SUPPLY

electronic, included with the luminaire

#### OTHER

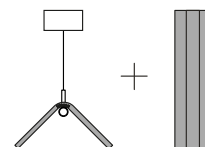
Felt housing colour according to the Classic  
palette. The luminaire comes complete with a  
suspension set, length L = 1200 mm.



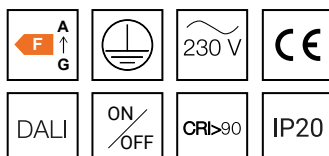
### ELLE

10.188.0001.03.933.XXX

LUMINAIRE POWER [W]	12.5
LUMINAIRE LUMINOUS FLUX [lm]	1050
COLOUR TEMPERATURE [K]	3300
LIFETIME LXX BXX	L90B10@60.000h
LENGHT L [mm]	1200
THE COLOUR OF THE HOUSING	RAL9005 (black) <i>+on order</i>



We can provide matching wall panels  
for your project\*

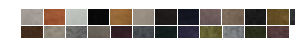


\*This offer applies to the panels only. Adhesive,  
mounting accessories, and installation are the  
responsibility of the Client / installer.

V-cut



Classic Colours



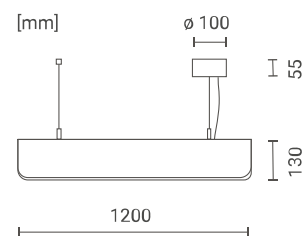
**MOSS** in the picture

\_suspended

ELLE

www.spectra-lighting.pl

**ELLE**  
Classic Colours; ASH



# JAZZ

## APPLICATION

entrance halls, offices, conference rooms,  
private apartments

## HOUSING

aluminum, felt

## POWER SUPPLY

electronic, included with the luminaire

## OTHER

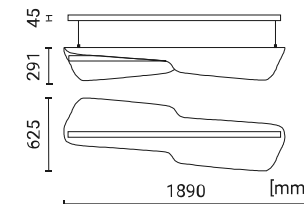
Felt housing colour according to the Classic palette. The luminaire comes complete with a suspension set, length L = 1200 mm.



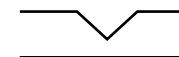
## JAZZ

10.189.0011.03.930.XXX

LUMINAIRE POWER [W]	88
LUMINAIRE LUMINOUS FLUX [LM]	8500
DISTRIBUTION ANGLE [°]	64
TEMPERATURE [K]	3000
LIFETIME LXX BXX	L90B10@60.000h
LENGHT L [MM]	1850
THE COLOUR OF THE HOUSING	RAL9005 (black) +on order



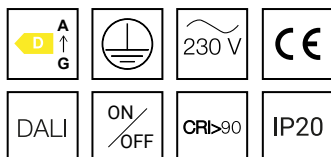
V-cut



Classic Colours



**CORN** in the picture



\_suspended

JAZZ

www.spectra-lighting.pl



**Visualization**

**JAZZ** Classic Colours; CREAM

"Let's shape  
the future  
through light."

Inspired by  
Peter Zumthor

# \_Light Structure

Acoustic luminaires  
not only improve the  
comfort of a space  
– they become an  
integral part of it

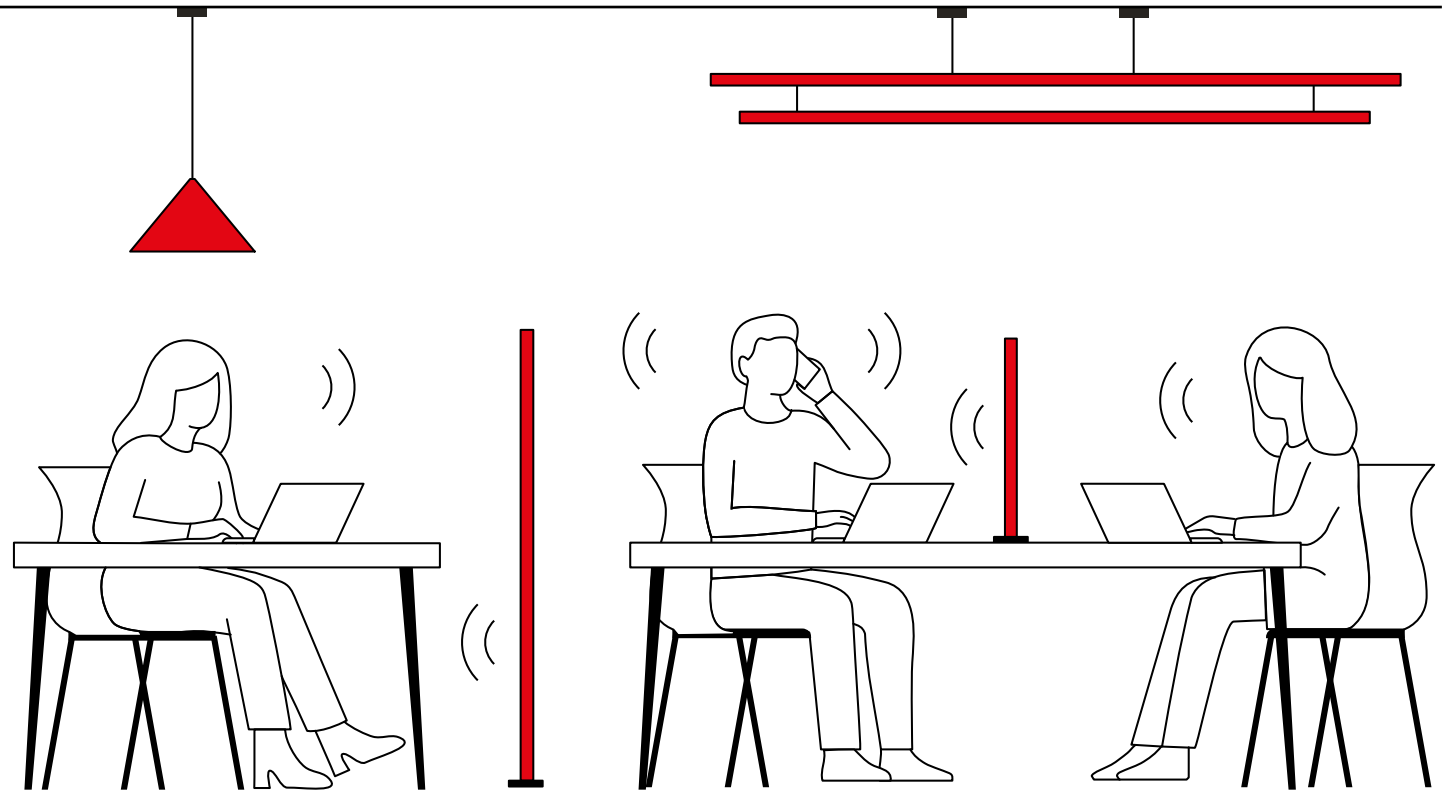


**Brain Embassy** Warsaw, Poland  
**Architect** Archicon Szczesiuk&Wilczek s.c.  
**Investor** Adgar Investments & Development Ltd  
**Photographer** Adam Grzesik  
**Custom** Classic Colours; LEAD

[www.spectra-lighting.pl](http://www.spectra-lighting.pl)

## INTERIOR ACOUSTIC IMPROVEMENT

Acoustic elements such as wall claddings, lighting, and partitions play a key role in improving the sound quality in rooms. However, to achieve optimal results, they should be part of a comprehensive interior design strategy that takes into account reciprocal architectural elements. A professional approach to arrangement allows these components to be harmoniously combined, creating a space with excellent acoustic parameters.



# Holistic \_approach

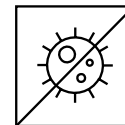


# A NEW LAYER OF COMFORT

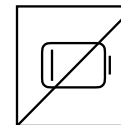
**ENRICH YOUR  
INTERIORS WITH  
OUR POLISH  
NATURAL PANELS**

We provide them as custom-tailored decorative components, specifically designed to meet your project needs and creative solutions\*

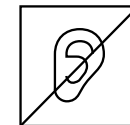
\*This offer pertains exclusively to the panels as a product. The provision of adhesive, fasteners, and the execution of installation are the responsibility of the Client/installer.



Protects against  
the spread of  
microorganisms



Reduces  
fatigue



Ensures privacy and  
space division



Suppresses  
noise and  
echoes

# What felt forms do we offer?



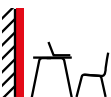
ACOUSTIC PARTITIONS  
AND ROOM DIVIDERS



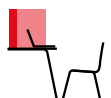
BENT PANELS (V-CUT)



FREE-HANGING PANELS



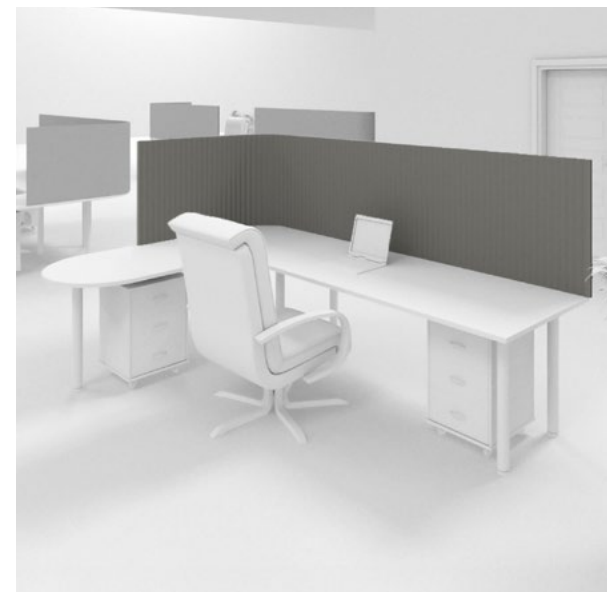
ADHESIVE WALL AND  
CEILING PANELS



OFFICE PARTITIONS



CUSTOM FORMS



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**ACOUSTIC PARTITION  
PANEL FREESTANDING**  
Classic Colours; ASH

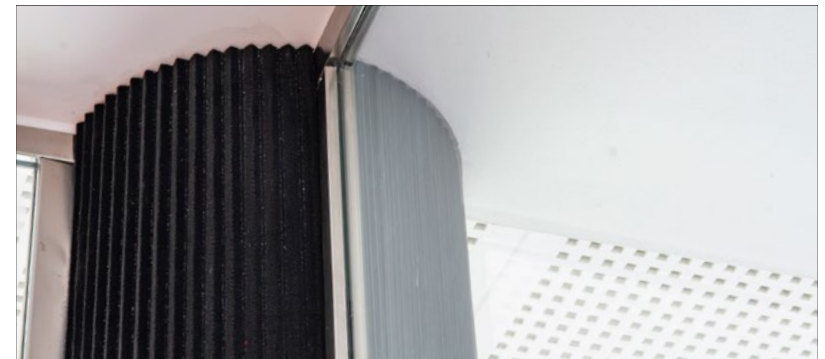
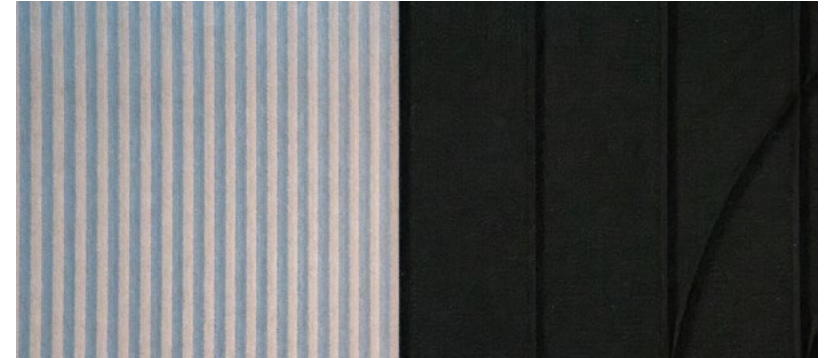


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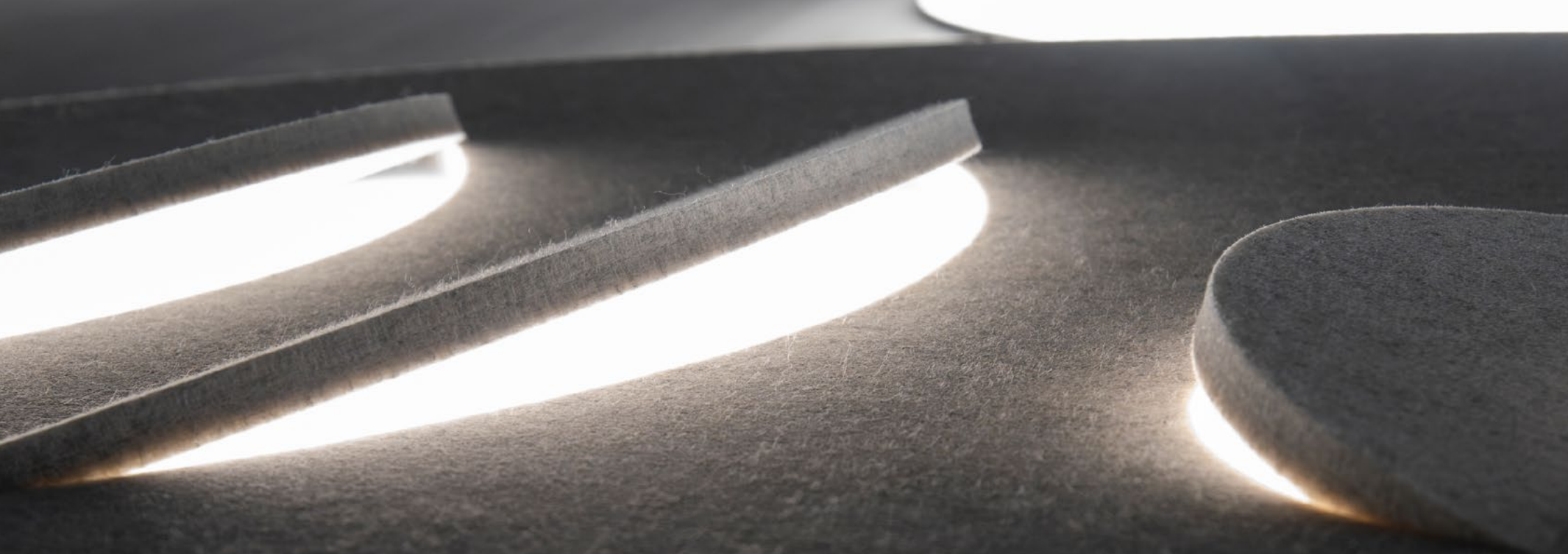




**ADHESIVE PANEL**  
**BENT PANEL**  
 Classic Colours; ASH, COAL



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TECHNOLOGY AND DESIGN

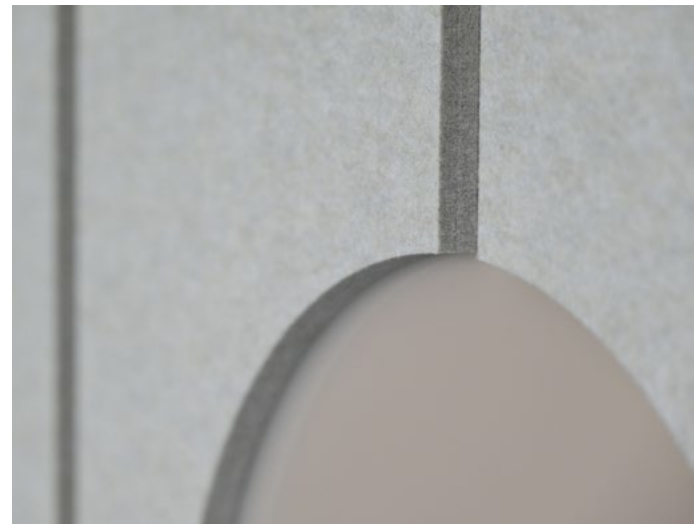
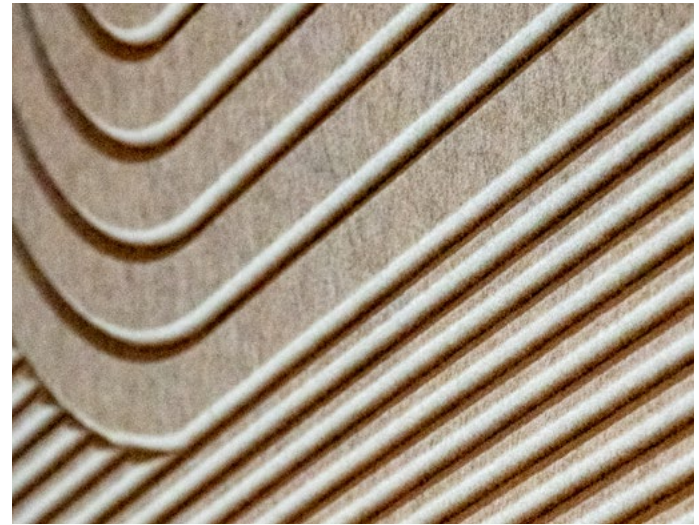
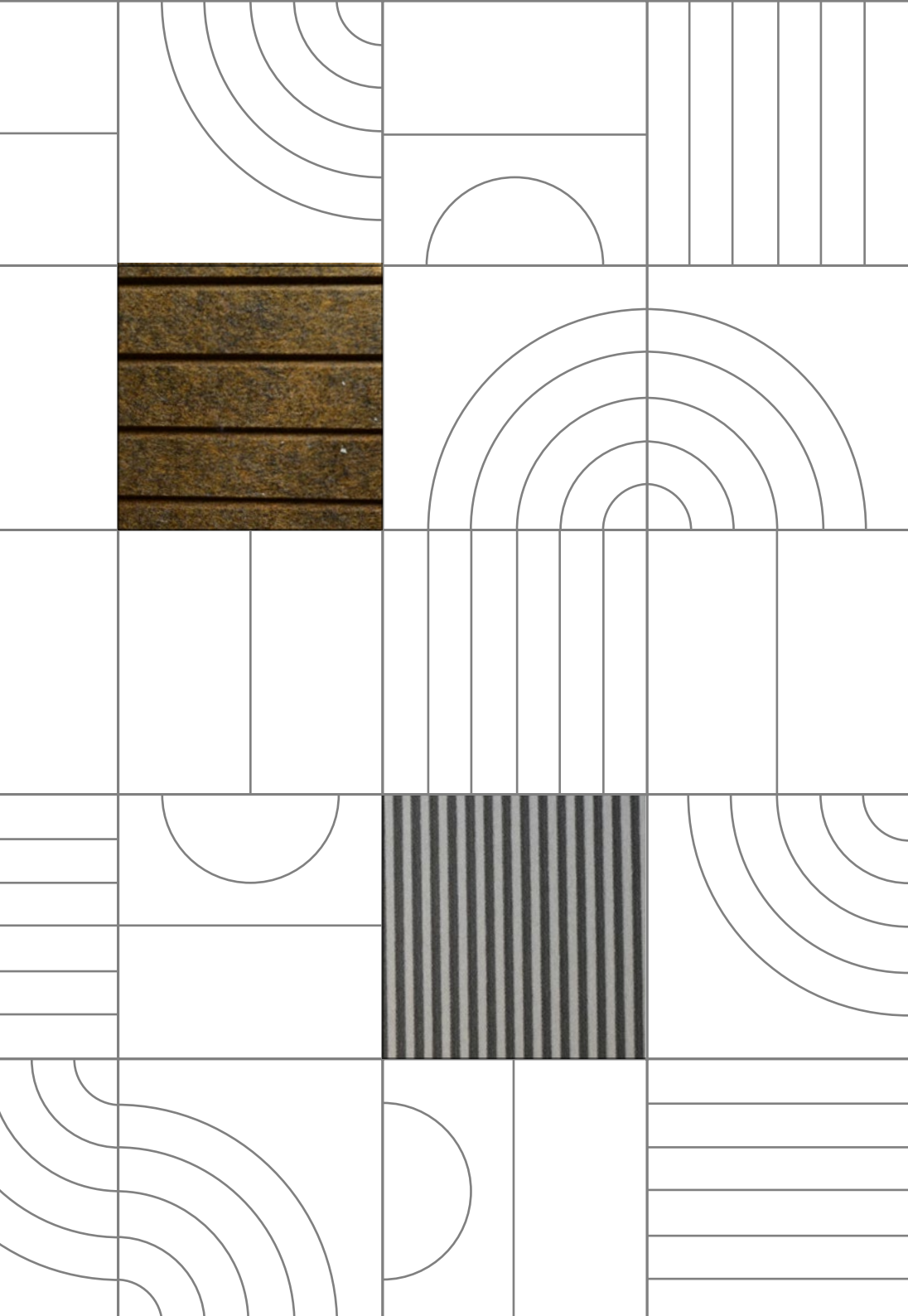
# CUTTING OPTIONS

**Our acoustic panels are available with various types of precise cuts, serving both aesthetic and functional roles.**

Each cut pattern gives the panel a unique character and texture, enhancing the interior design. These cuts also significantly contribute to acoustic improvement, reducing reverberation and ensuring greater comfort in offices, hotels, and galleries.

The V-CUT option additionally gives panels depth and a unique texture, and its specific form even more effectively reduces resonance and vibration transfer, which translates into higher sound quality in the space.









## STYLE AND FUNCTIONALITY

Digital V-cut technology enables the creation of precise grooves that give panels character and enhance their acoustic properties.



## PRECISE CUTTING

Advanced plotter cutting allows for smooth, even lines at a 45° angle, and in various widths: 8 mm, 12 mm, and 16 mm.

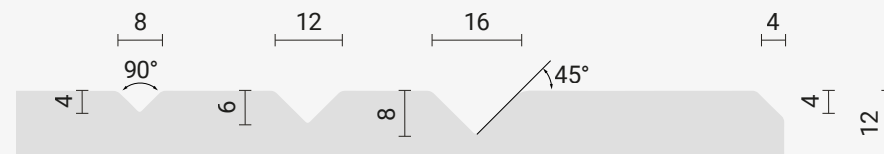


## ACOUSTIC COMFORT

V-Cuts increase the sound absorbing surface, reducing reverberation and improving acoustic comfort in offices, hotels, schools, and public spaces.

## V-CUT TECHNOLOGY

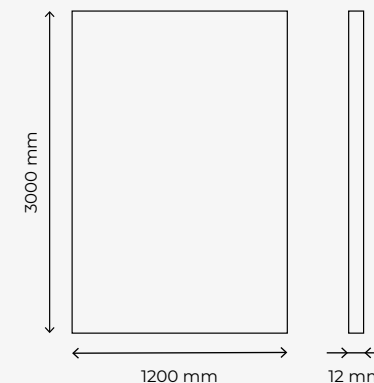
Precise cuts in three different widths: 8 mm, 12 mm, 16 mm



## WYMIARY

Panels are supplied in gross dimensions of **3000 mm x 1200 mm x 12 mm**.

Each panel weighs approximately **9.15 kg** and has a density **2,4 kg/m²**.



## RODZAJE CIĘĆ



### Straight Cut

Perfect for basic shapes and fittings



### Curved Cut

Creating fluid, decorative shapes



### Pattern Cut

Designs cut across the entire surface of the panel, enhancing flexibility and providing shape



### Cut-out

Openings and internal shapes, from simple forms to intricate designs

# What possibilities do we offer?

## STANDARD ORDERS

Ready-made V-cut patterns offer a quick choice and proven aesthetics.



HEXAGON



DIAMOND



LINE



WAVE



SQUARE



SINGLE- / DOUBLE-SIDED EDGE



SHAPE WITH HOLE

## INDIVIDUAL ORDERS

V-cut tailored to the design with complete freedom of form



CUSTOMIZED





**Quest** Warsaw, Poland  
**PROFILITE EC 45** Classic Colours; LEAD







TECHNOLOGY AND DESIGN

# ACOUSTIC PRINT

Acoustic Print is a combination of a classic PET panel with a surface finished using the highest quality digital printing method.



# MINIMUM ORDER IS JUST 1 PANEL

Starting from just one piece, you can enjoy complete design freedom.

**COMPLETE CUSTOMIZATION**





Tailor both the print and the panel's form. Opt for single-sided or double-sided printing and select any desired cut pattern to imbue the panels with a truly distinctive character.

**RAL PALETTE COLOUR PRINTING**

The capability to print specific colours from the RAL palette allows for seamless integration of the panels with other interior elements, irrespective of the overarching design scheme.

Consequently, these panels fluidly integrate into the environment, culminating in a coherent and aesthetically refined outcome.

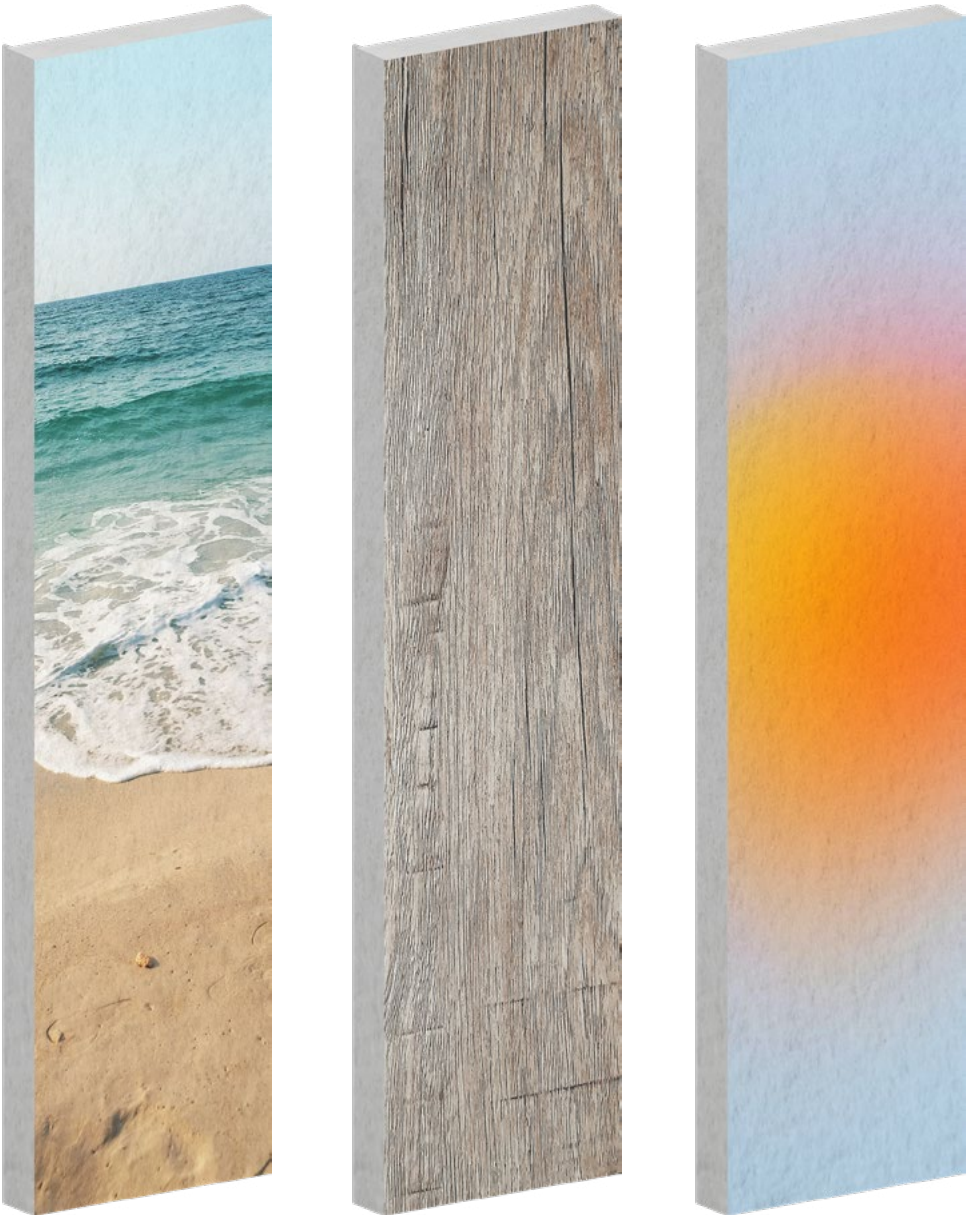
**PRINT OPTIONS**

-  photorealistic
-  wood textures
-  gradients
-  RAL colours

**SPECIFICATION**

Achieving superior colour reproduction on felt is best realized with CLOUD, a selection from our **Classic Palette**.

This printing capability is solely applicable to our **12 mm** PET panels.



# Cleaning and maintenance guidelines for materials in Spectra acoustic luminaires

To ensure the enduring aesthetic appeal and colour vibrancy of your Spectra lighting luminaires, we advise gentle vacuuming with a soft brush attachment, ideally on a weekly basis.



Cleaning luminaires

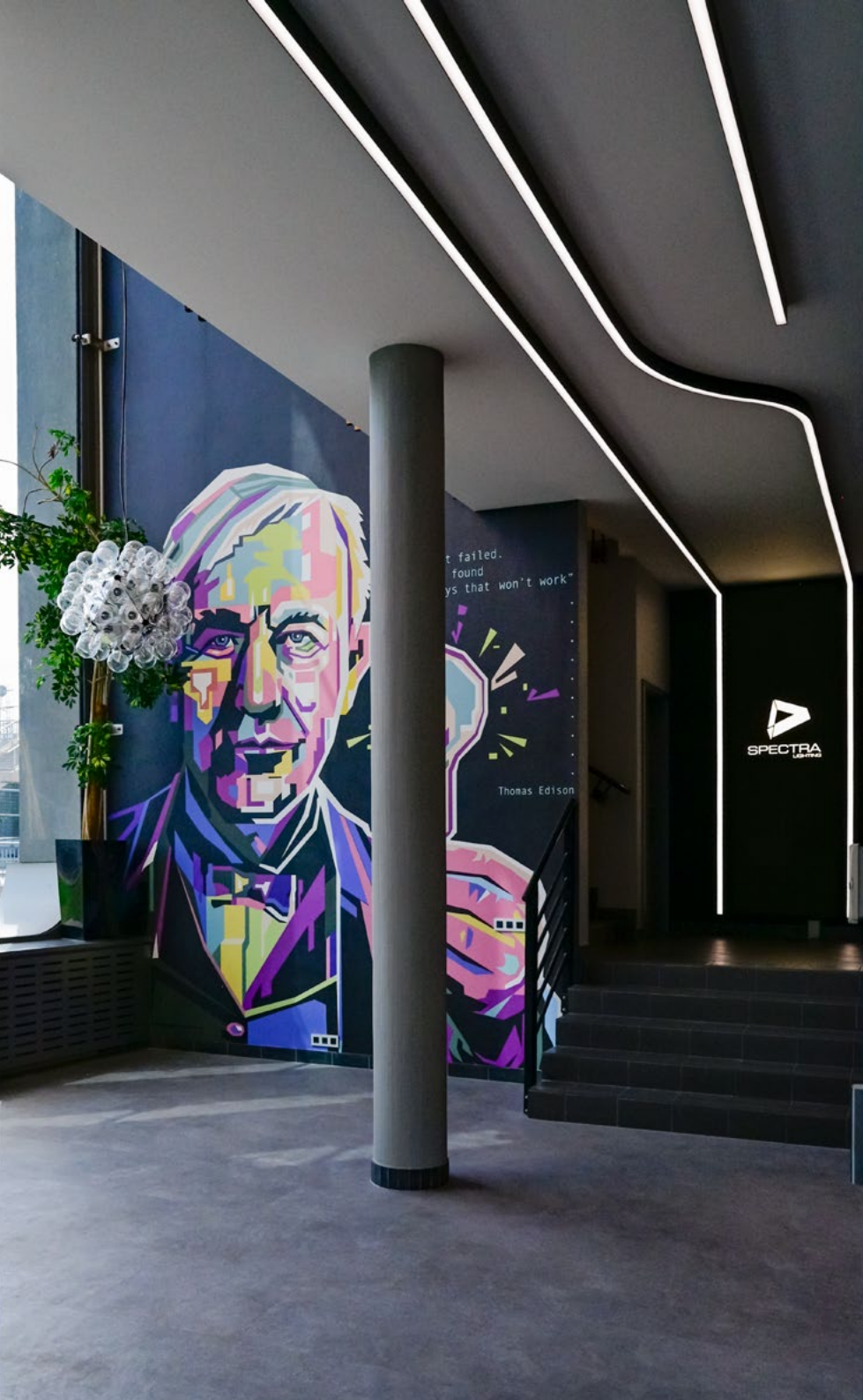


EcoPET material is comprised of at least 70% recycled PET bottles. It is effortlessly maintained, allowing for quick and straightforward stain removal. However, it is crucial never to scrub the material vigorously when cleaning; always use a clean, white cotton cloth and a minimal amount of detergent.

## CAUTION!

**Benzene, acetone, and similar solvent-based products may cause discolouration of materials used in Spectra luminaires. Prior to applying any cleaning agent, always test it on an inconspicuous area to ensure it will not cause damage or discolouration.**





**Spectra Lighting offers standard-compliant, bespoke lighting solutions. We ensure a harmonious balance between functionality, aesthetic appeal, and the specific demands of the interior space.**

If you have any inquiries or wish to schedule a personalized consultation regarding your project, please do not hesitate to contact us by phone or email:

**+48 22 567 01 00**  
**[info@spectra-lighting.pl](mailto:info@spectra-lighting.pl)**



Scan the code to explore the full range of luminaires  
available on our website

