



NYQUISTA

ACOUSTIC DESIGN

OFFICE | PORTFOLIO

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OFFICE

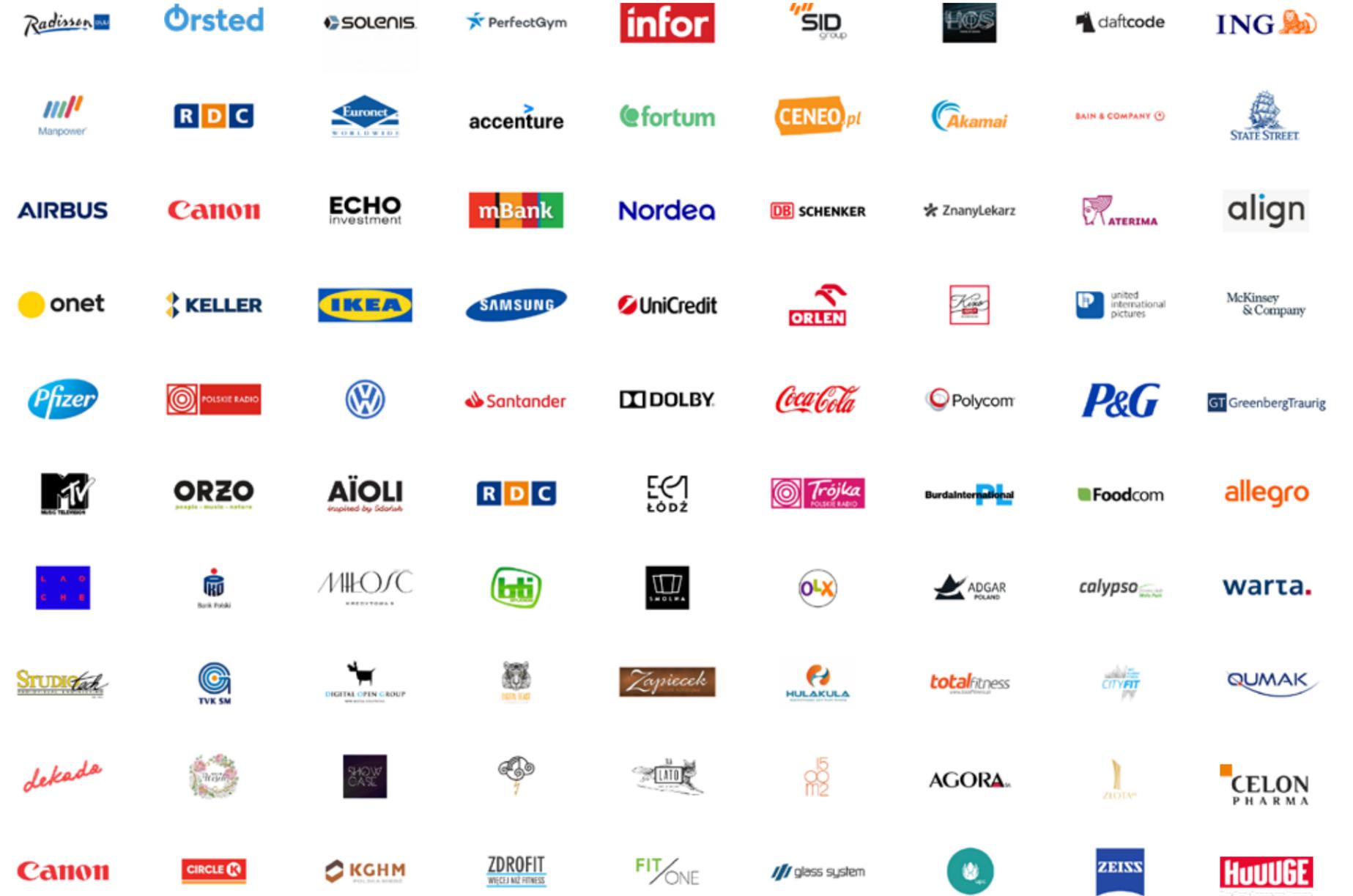
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ABOUT US

11 years of experience in acoustics

Nyquista Acoustic Design is a team of people who share a common passion for acoustics and modern design. We are a leading manufacturer of acoustic materials in Poland. We design, measure, produce and distribute acoustic panels and mats. In the 11 years of our activity we have developed and put into mass production over 600 products for insulation and acoustic adjustment, and we have completed over 1000 projects.

TRUSTED US:



DESIGN

The kitchen or common areas are ideal places for informal meetings. This is where employees spend their breaks, integrate and converse. Noise in this place consists of various sounds in the form of conversations, clearing dishes, cutlery, or turning on the coffee machine. High reverberation ($T \geq 0.8$ s) and low insulation of walls and doors ($R'A1 \leq 35$ dB) cause the noise to spread to other parts of the office and disturb other people's work



STAGE I

Collecting information

1. Inventory of the facility and environmental interview
2. Determining the needs and potential threats
3. Facility analysis in terms of acoustics
4. Performing acoustic measurements

STAGE II

Data analysis

1. Analiza pomiarów i zgromadzonych danych
2. Tworzenie symulacji akustycznych
3. Ocena możliwości poprawy warunków akustycznych
4. Opracowanie wstępnej koncepcji
5. Konsultacje z architektami, projektantami innych branż

STAGE III

Designing

1. Adaptation of acoustic and building materials
2. Optimizing the project in terms of effectiveness and cost
3. Creating a 3D visualization of rooms
4. Development of technical documentation
5. Preparation of an investment cost estimate

STAGE IV

Implementation

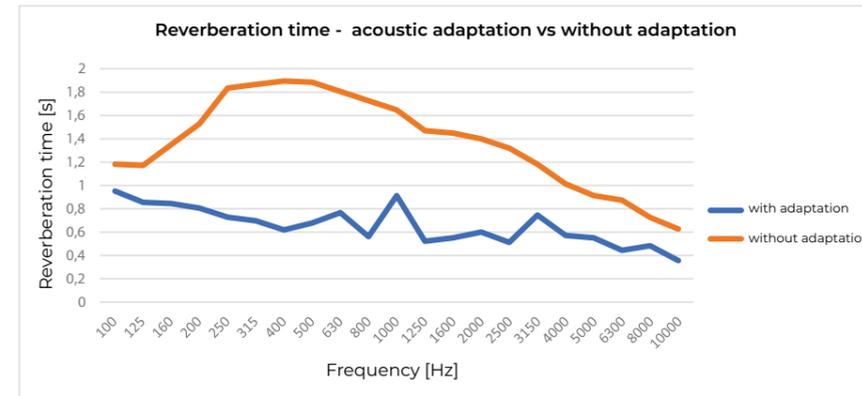
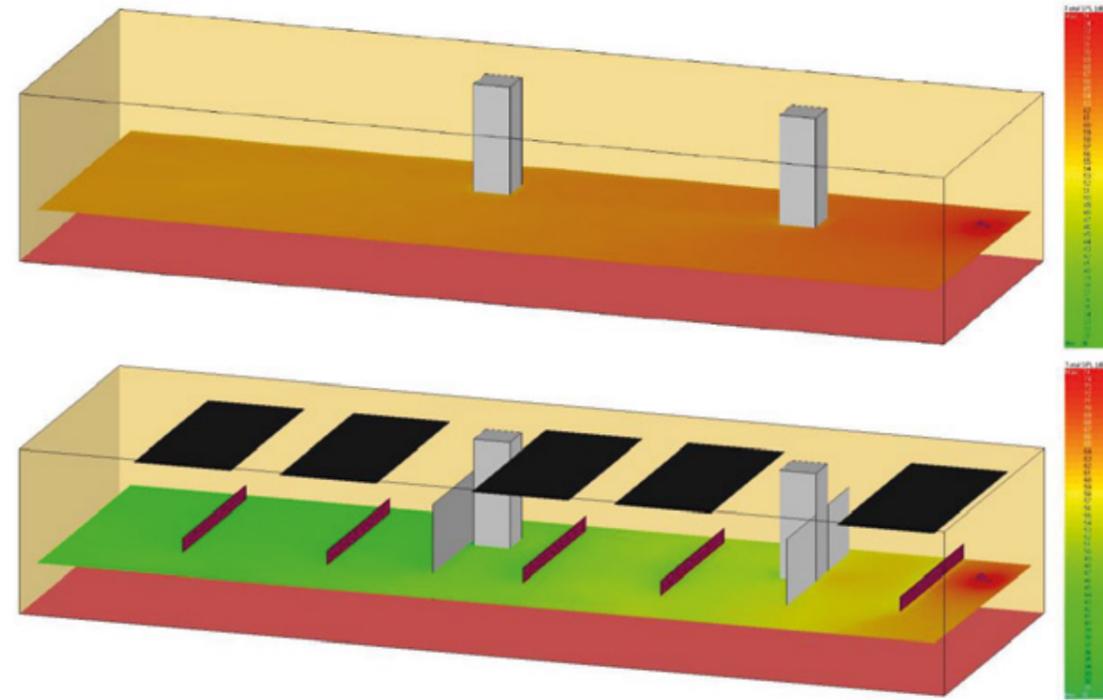
1. Creation of a work schedule
2. Production and preparation of acoustic panels
3. Execution of works and supervision over the implementation
4. As-built acoustic measurements

MEASUREMENTS



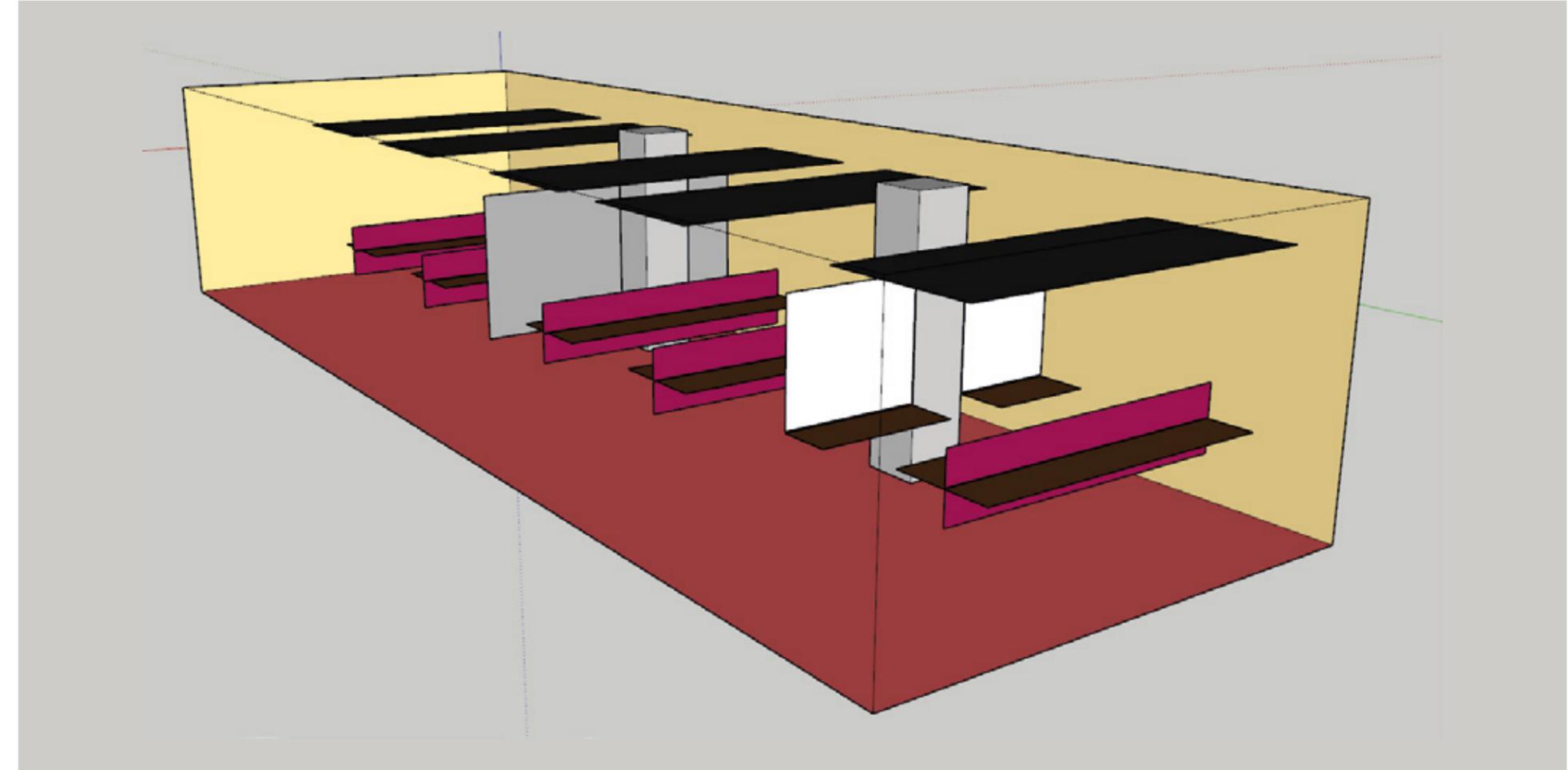
We carry out acoustic measurements in accordance with accredited methodology, applicable PN and ISO standards as well as legal regulations. For this purpose, we use certified measuring equipment of the highest class 1. With us you are guaranteed that the acoustic measurements have been made by an authorized entity and in accordance with all requirements. Each study is completed with an acoustic analysis containing guidelines and design recommendations.

■ SIMULATION



Indoor acoustic simulations

Using advanced computer software based on a spatial model of a room, we can simulate the acoustics in any space we design. By carefully considering numerous factors such as dimensions, materials used, furniture, and the intended use of the space, we can accurately predict the key parameters for assessing interior acoustics. This allows us not only to meet the most stringent requirements, but above all to save a lot of time and avoid potential errors in the design phase that would be difficult to correct.

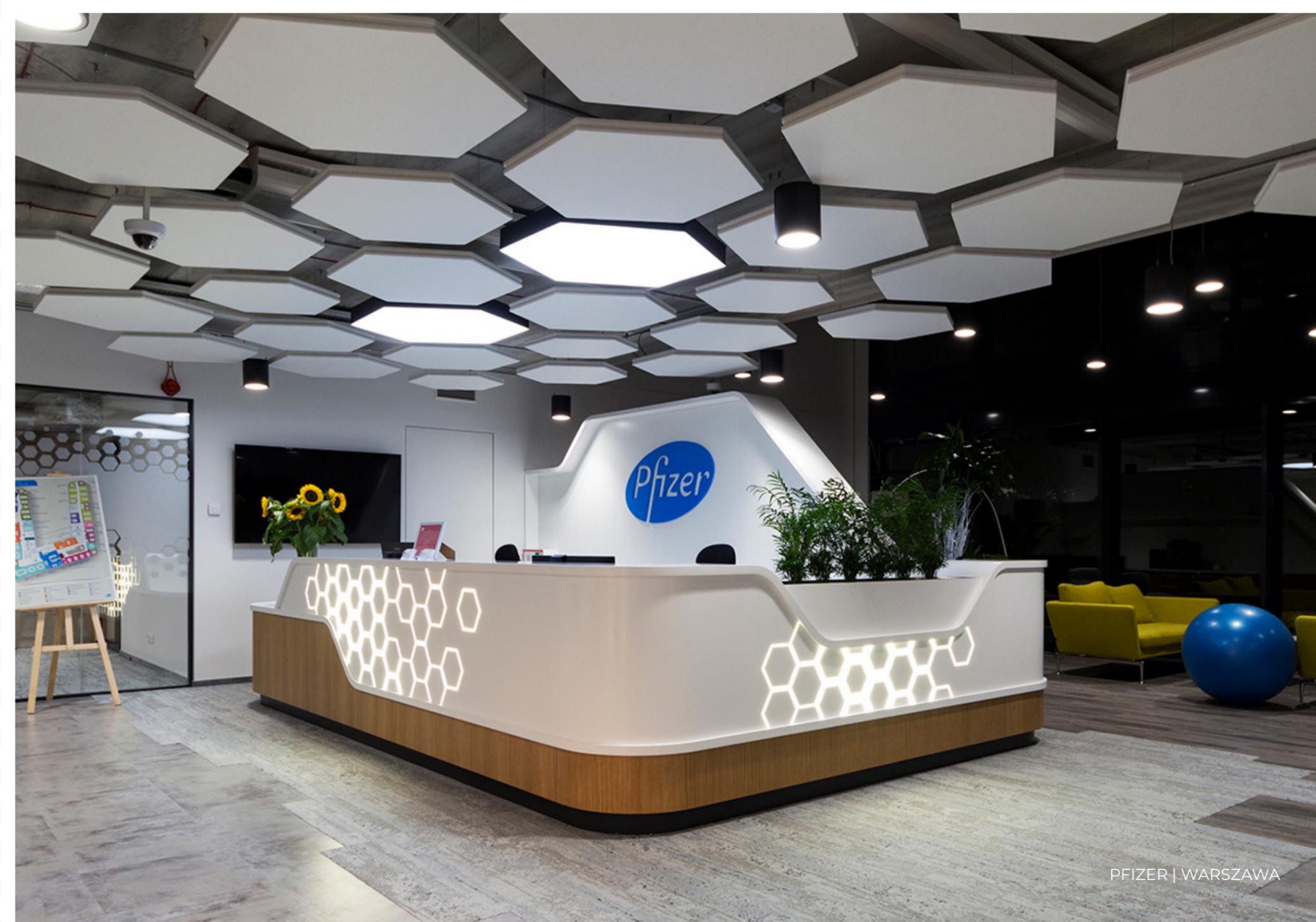


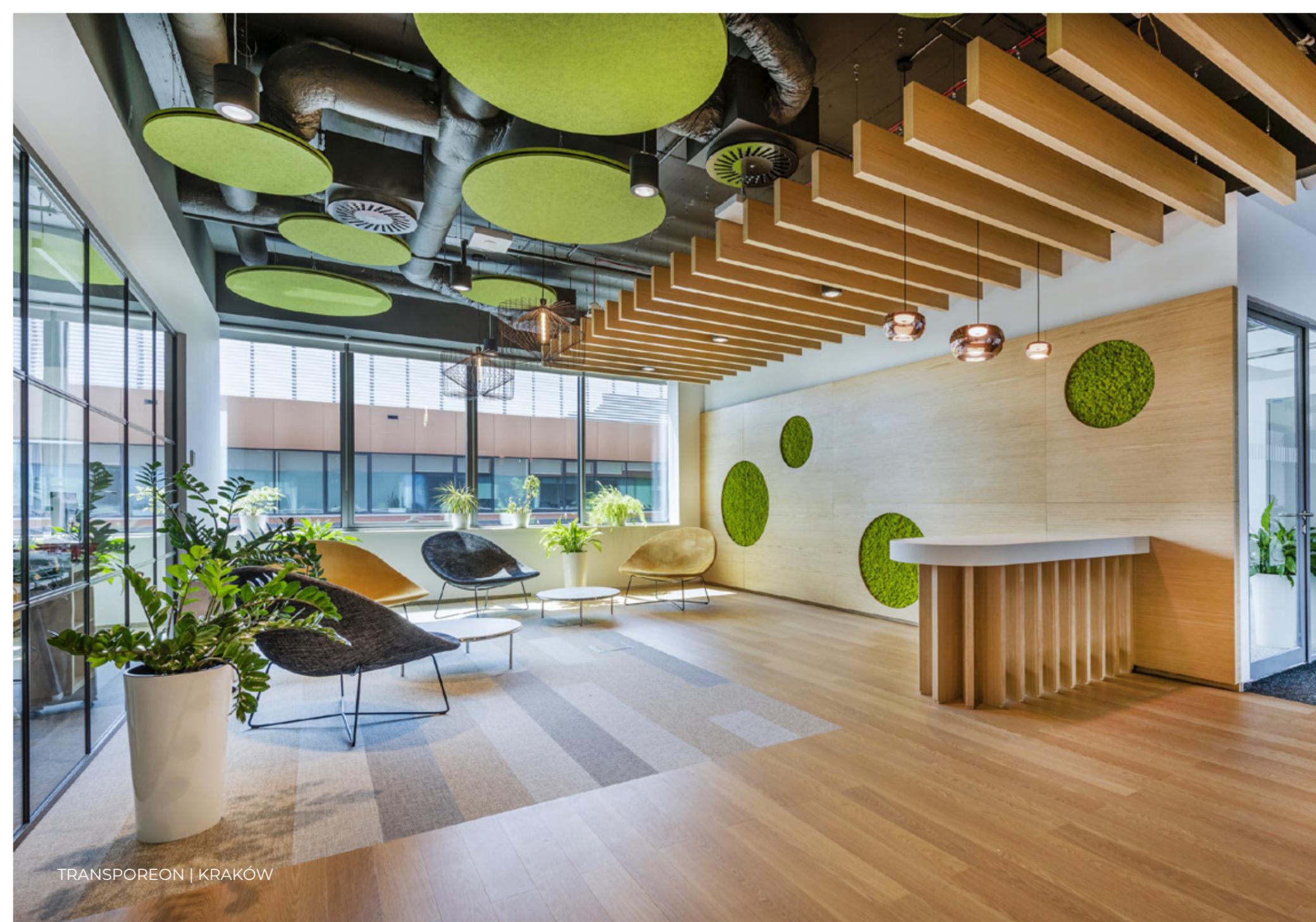
Visualisation and auralization

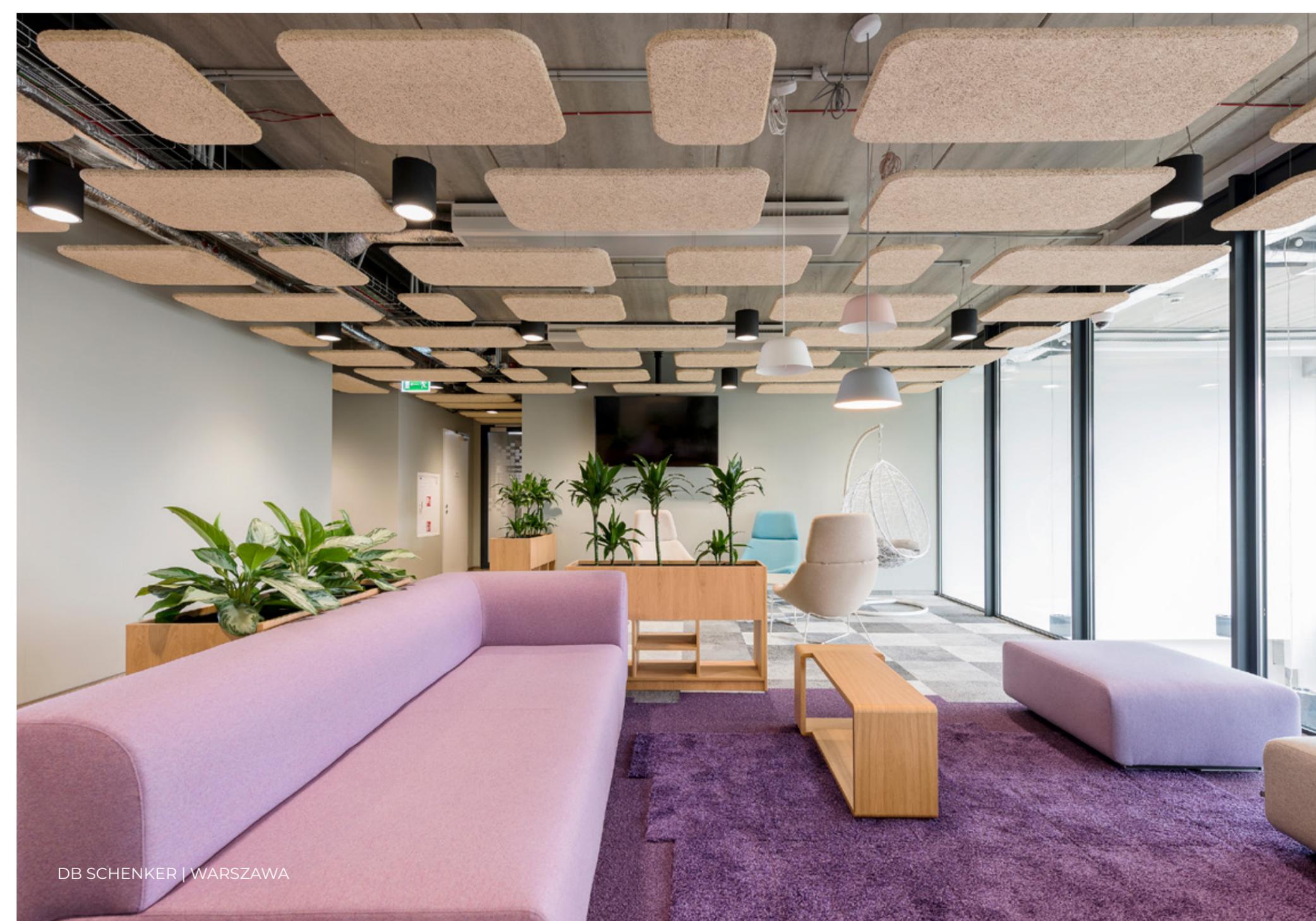
By creating a 3D model of a room, we evaluate the effectiveness of planned audio systems using tools such as: raytracing, auralization, scattering simulation, sound pressure level, etc. Thanks to the acoustic simulation, we can also determine echograms, histograms and reflectometers that show us the impulse response and the sound propagation in a given room.

ENTRANCE HALL / RECEPTION

The reception is the company's showcase because first impressions last. We should feel at ease and cozy on entrance to this area. Unfortunately, most of these halls are designed from hard materials that reflect sound such as glass, stone or wood. This can cause discomfort. Wall or ceiling acoustic panels for the reception should be interesting and unique at the same time, so that they become an additional element of our corporate identity.







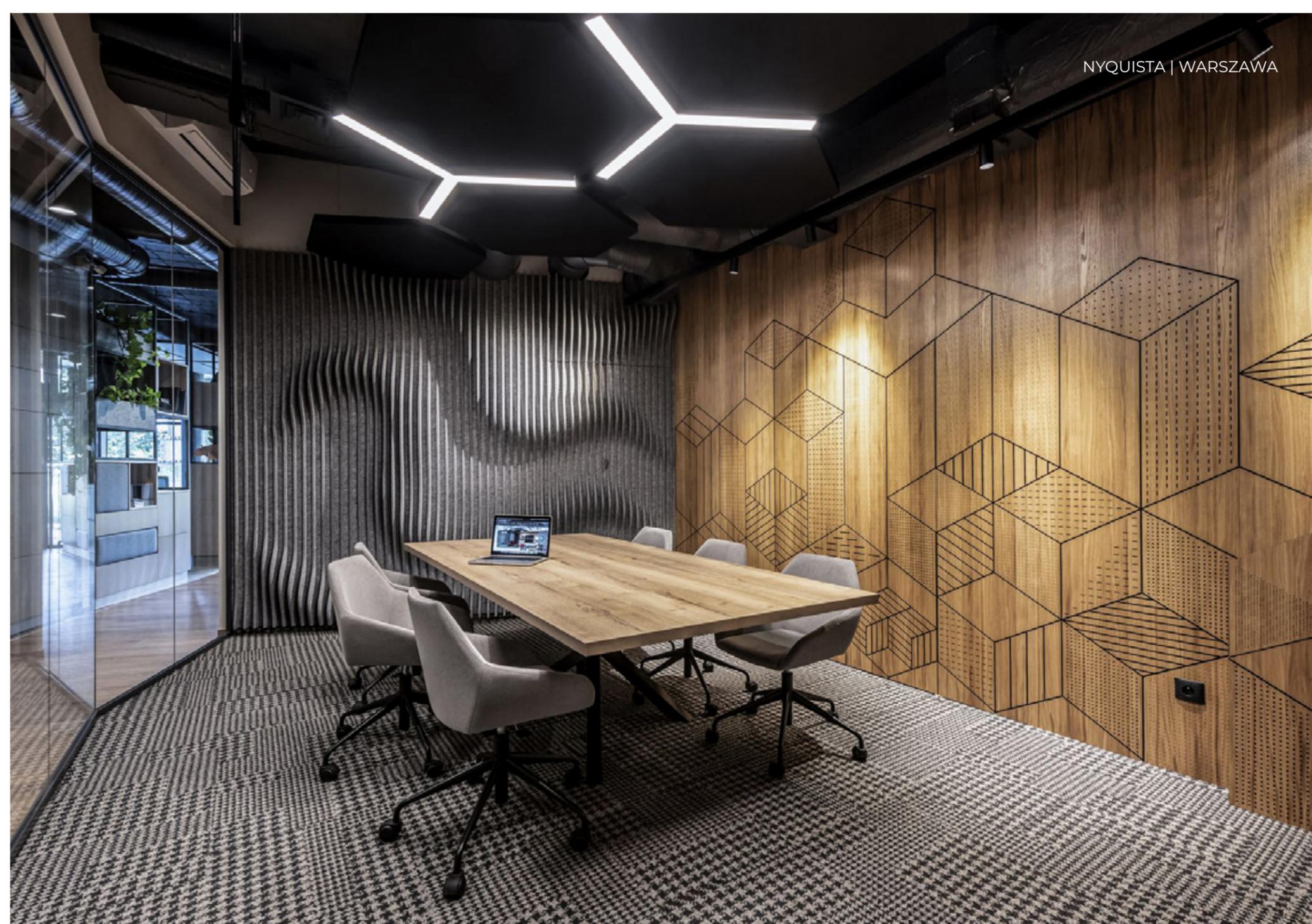
DB SCHENKER | WARSZAWA



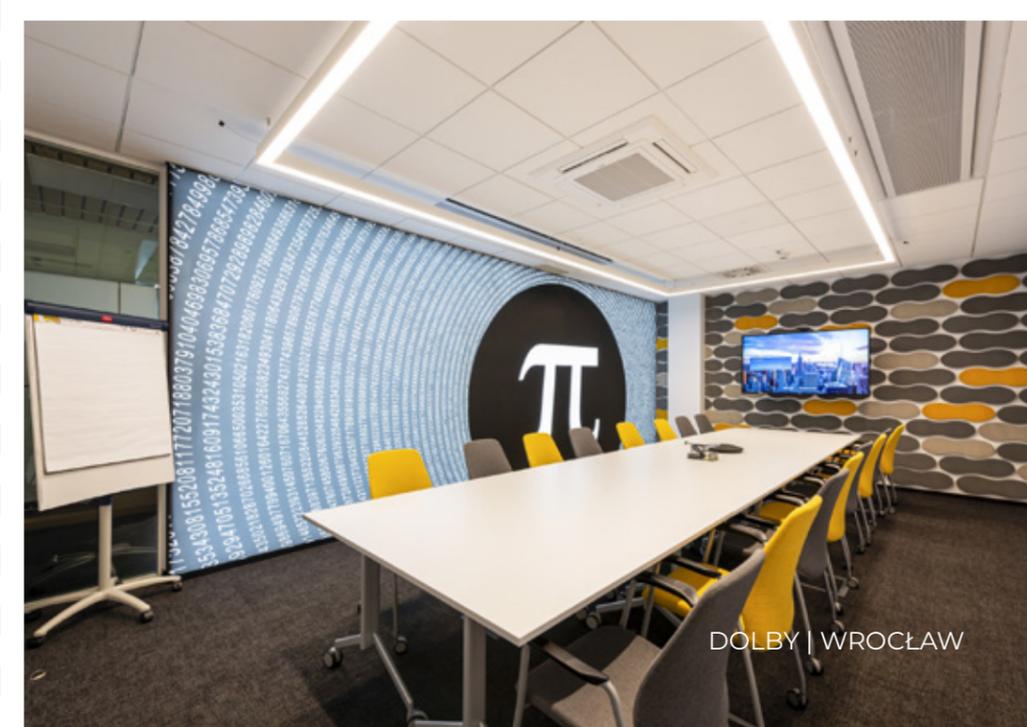
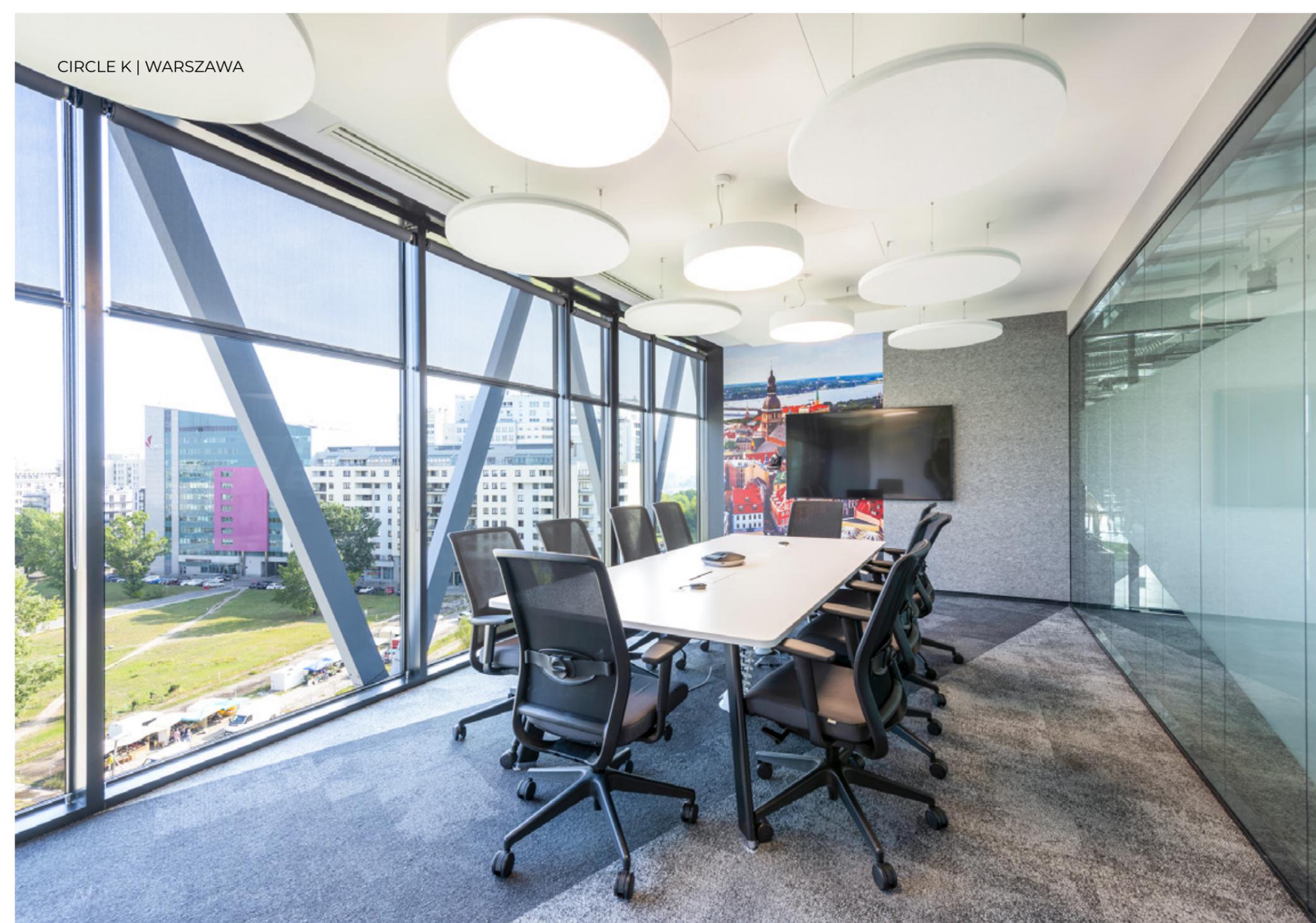
RENT SOLUTIONS | WARSZAWA

CONFERENCE ROOMS

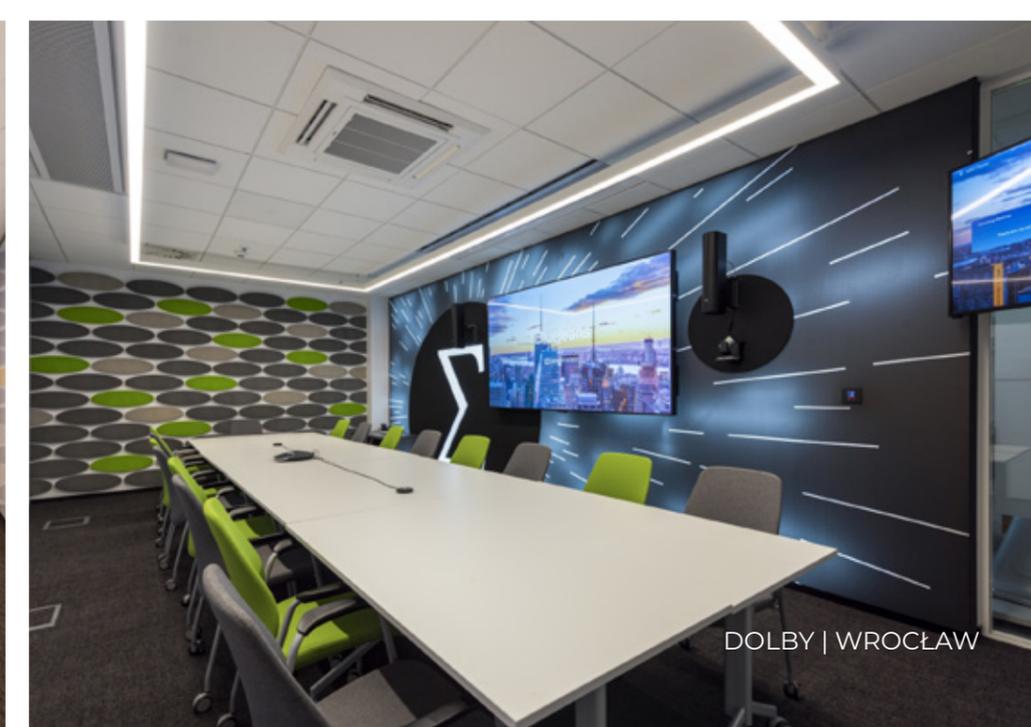
During meetings with clients, presentations or employee councils, you want everyone to hear clearly and be able to join in the discussion at any time. This is all too often impossible due to too excess noise reverberation. For example, this can be a result of the walls being glazed and additionally equipped with a board and a screen. These surfaces strongly reflect sound and increase noise reverberation. In order to improve the acoustics, make sure that the speech intelligibility is as good as possible and that the background noise level is low at 35 dB.



CIRCLE K | WARSZAWA



DOLBY | WROCLAW



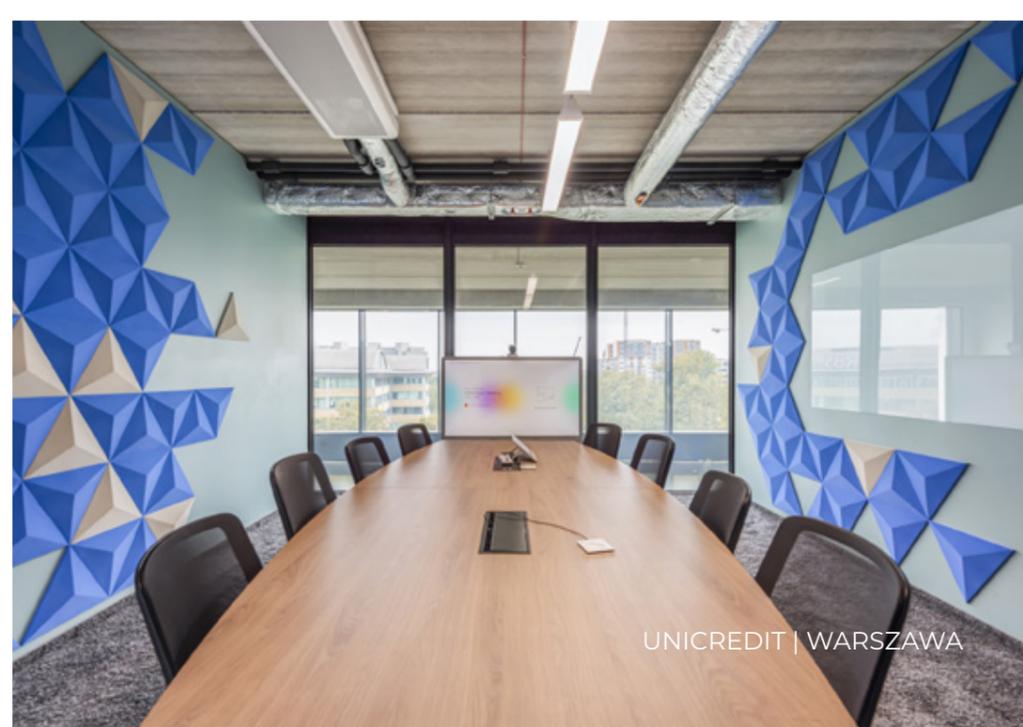
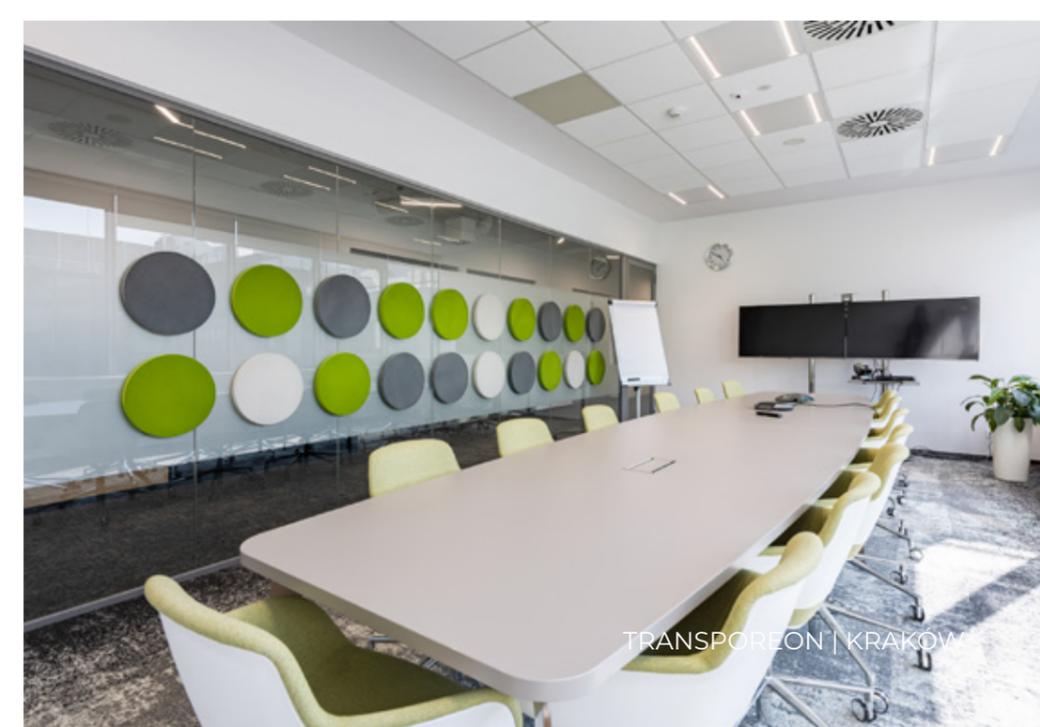
DOLBY | WROCLAW



DOLBY | WROCLAW



DOLBY | WROCLAW



OPEN SPACE

Properly designed open space provides us with a friendly and dynamic workplace. In open space, we want to ease communication within our team and protect against unnecessary noise coming from other workplaces. Meanwhile, ill-adapted spaces cause unwanted interference. Therefore, we should limit the propagation of sound over long distances by way of using acoustic screens at desks and a suspended ceiling or islands for a minimum 30% of the area.

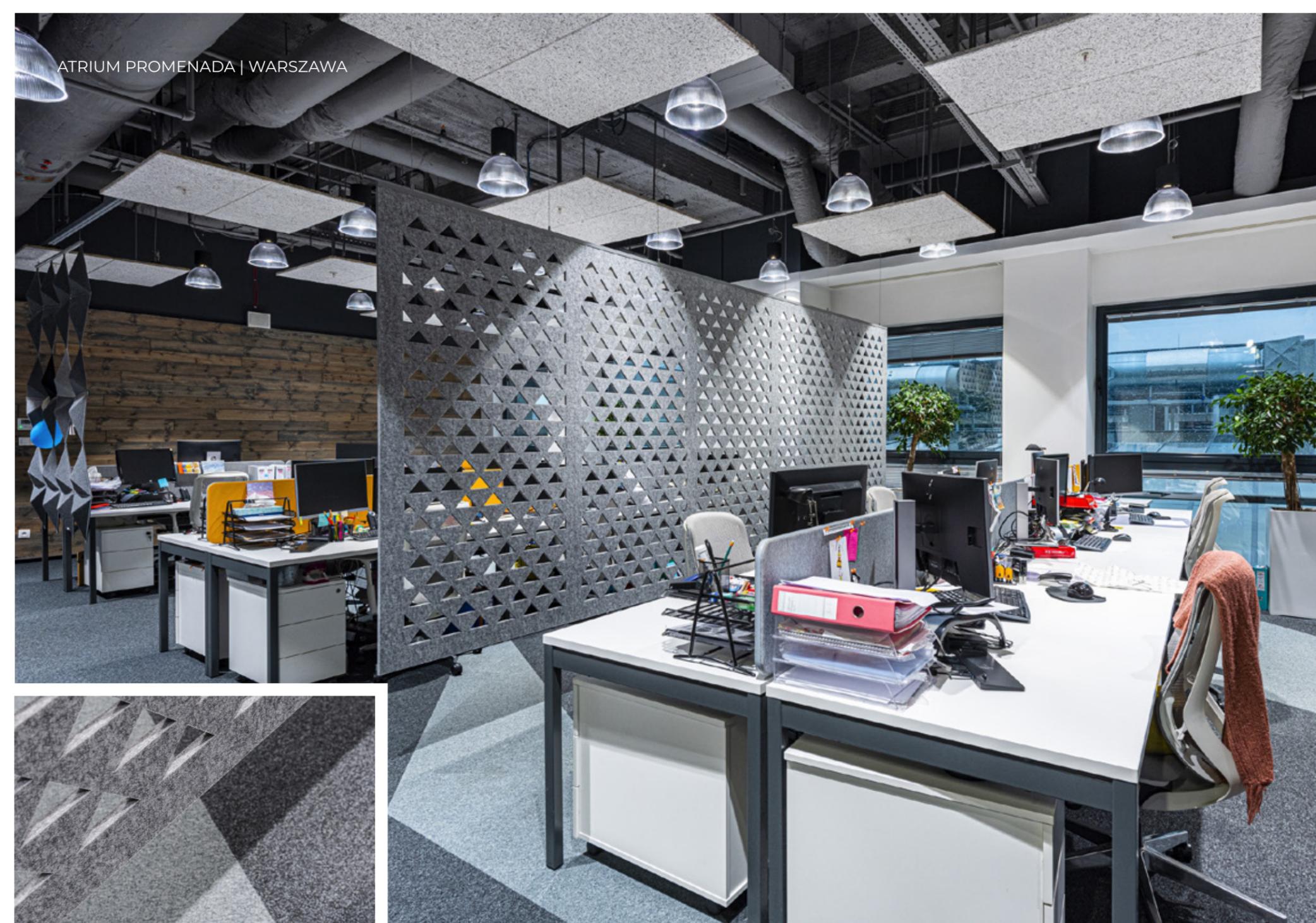


SANTANDER | LUBLIN

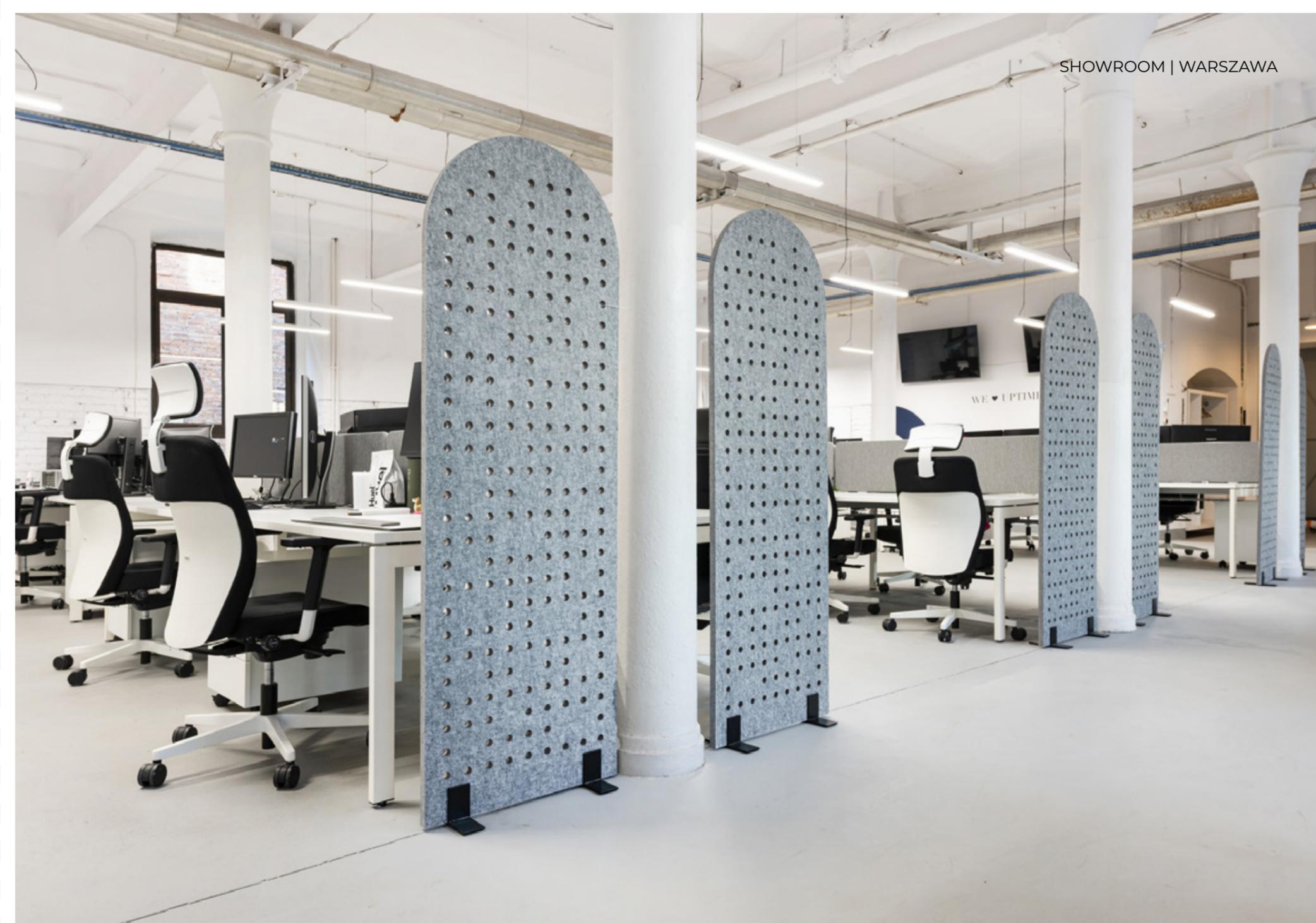


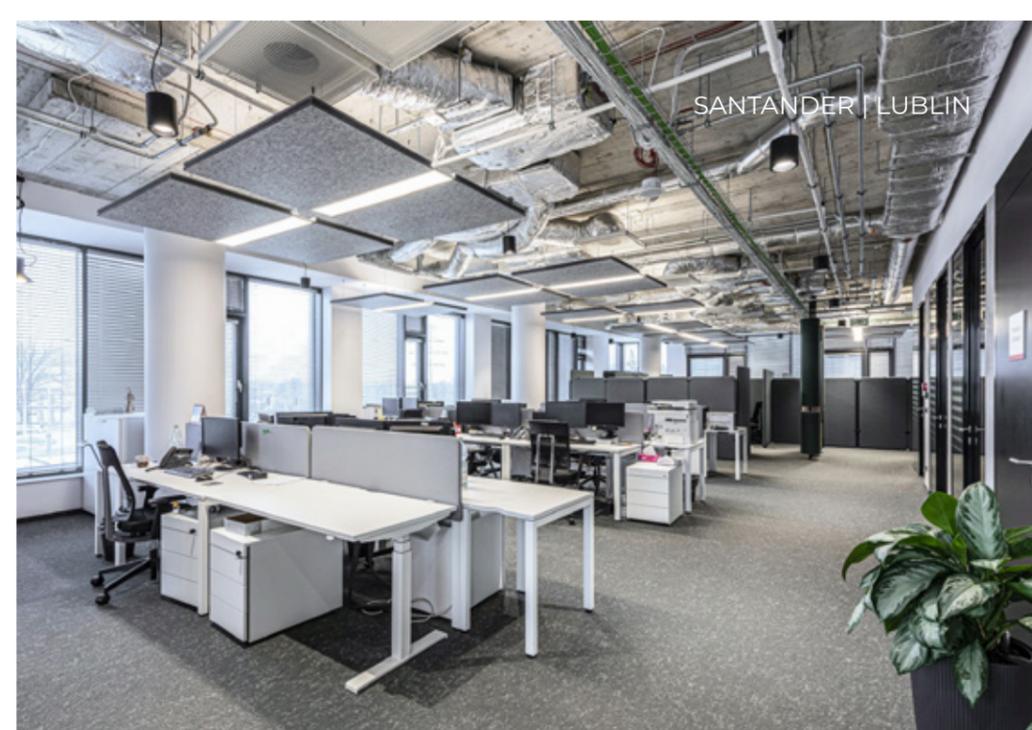
TRANSPOREON | KRAKÓW

ATRIUM PROMENADA | WARSZAWA



SHOWROOM | WARSZAWA

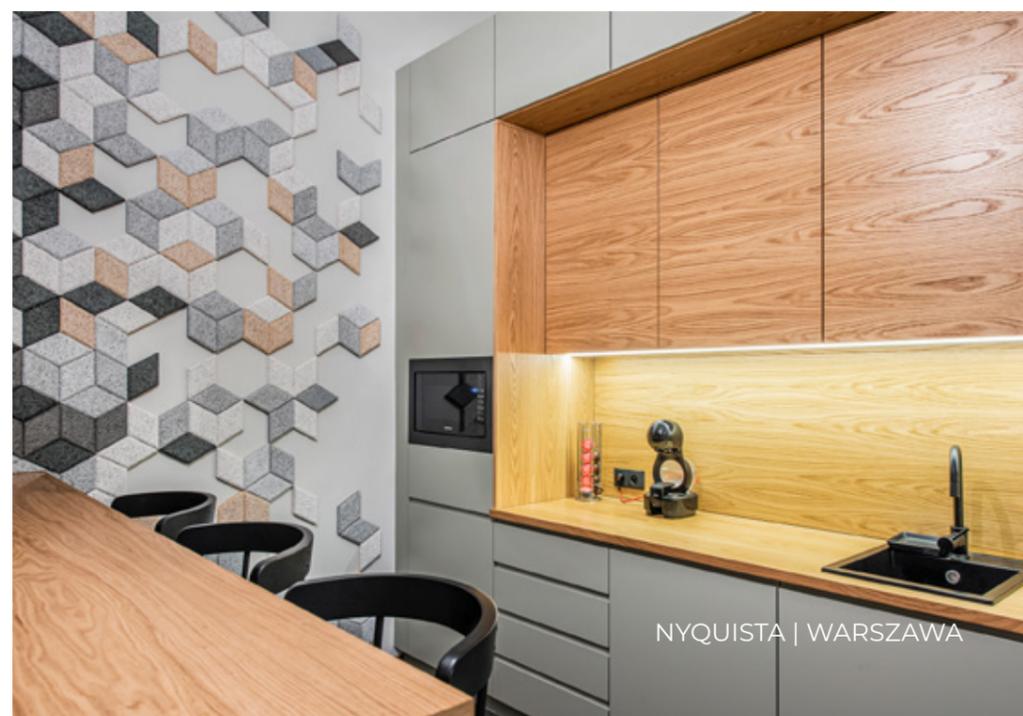
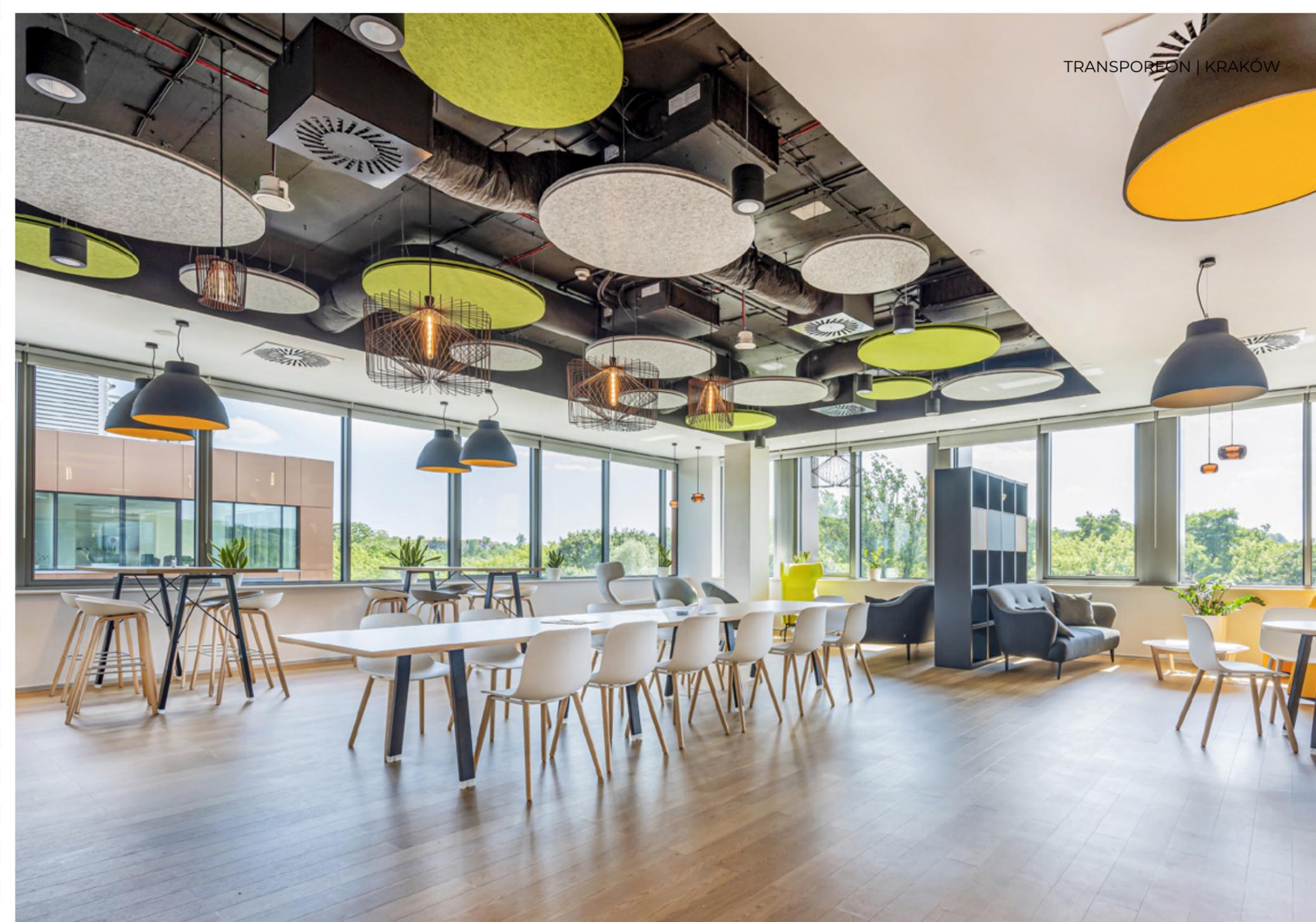
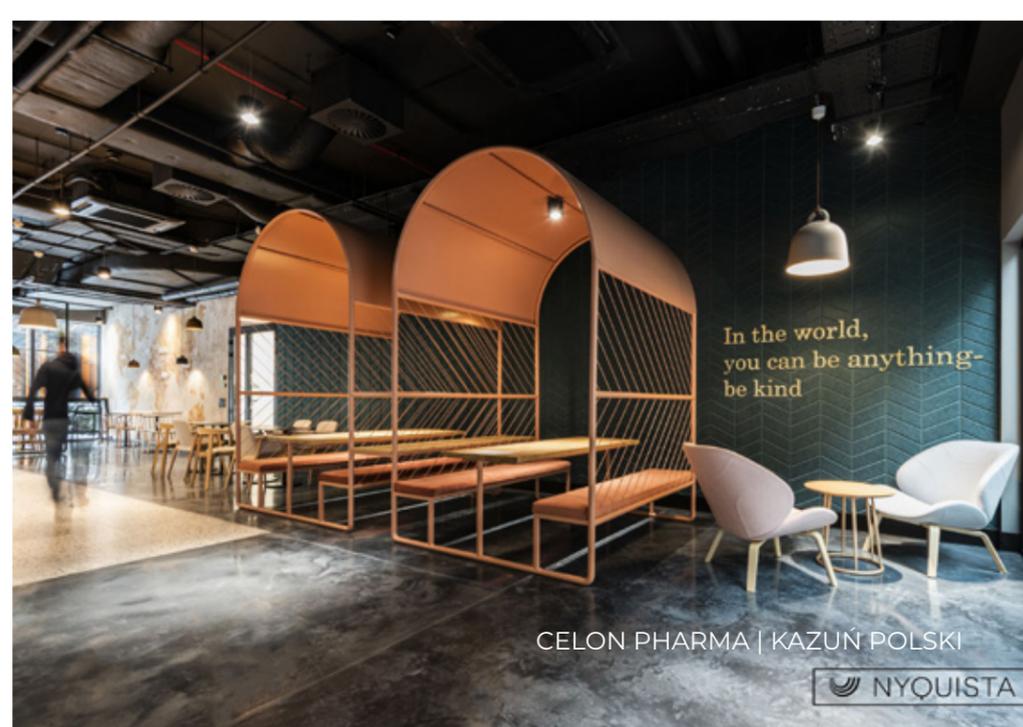




KITCHEN / CHILLOUT ROOM

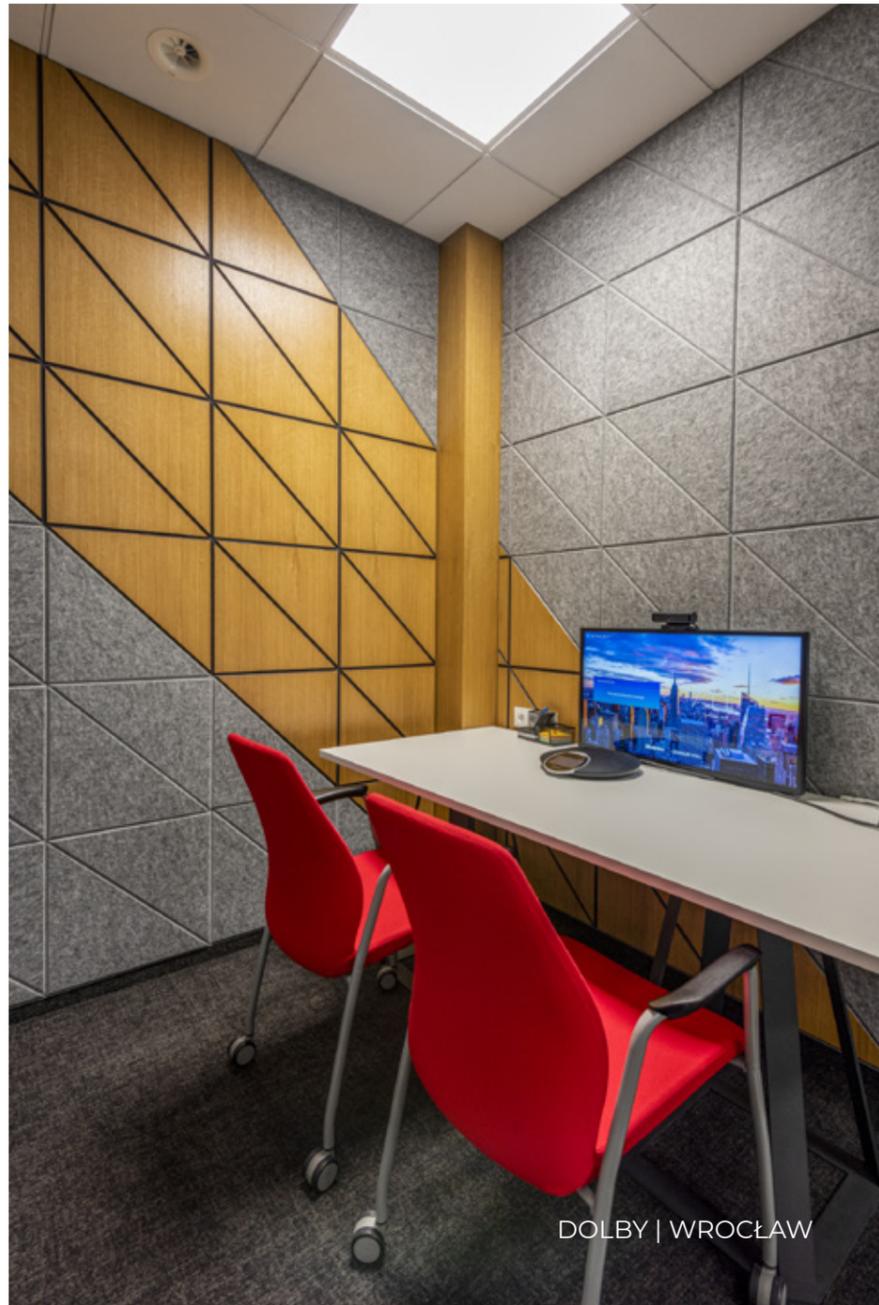
The kitchen or common spaces are ideal places for informal meetings. It is there that employees spend their breaks, integrate and talk. This means that the noise in this place consists of various sounds in the form of conversations, banging of cutlery and dishes, or the coffee machine being switched on. A high reverberation time ($T \geq 0.8$ s) and low insulation of walls and doors ($R'A1 \leq 35$ dB) result in the spread of noise to other parts of the office and disruption of other people's work.





■ FOCUS ROOM

We sometimes all perform tasks that require silence. Focus Room is the perfect place for work that requires concentration, or for meetings in small, 2-3 person groups. That's why we work to create the right atmosphere of intimacy and confidentiality. The surface of the walls should be covered with a minimum of 50% acoustic panels to ensure low reverberation time. In addition, the room should have a suitable construction, which guarantees wall insulation of a minimum $R'A1 \geq 40$ dB.



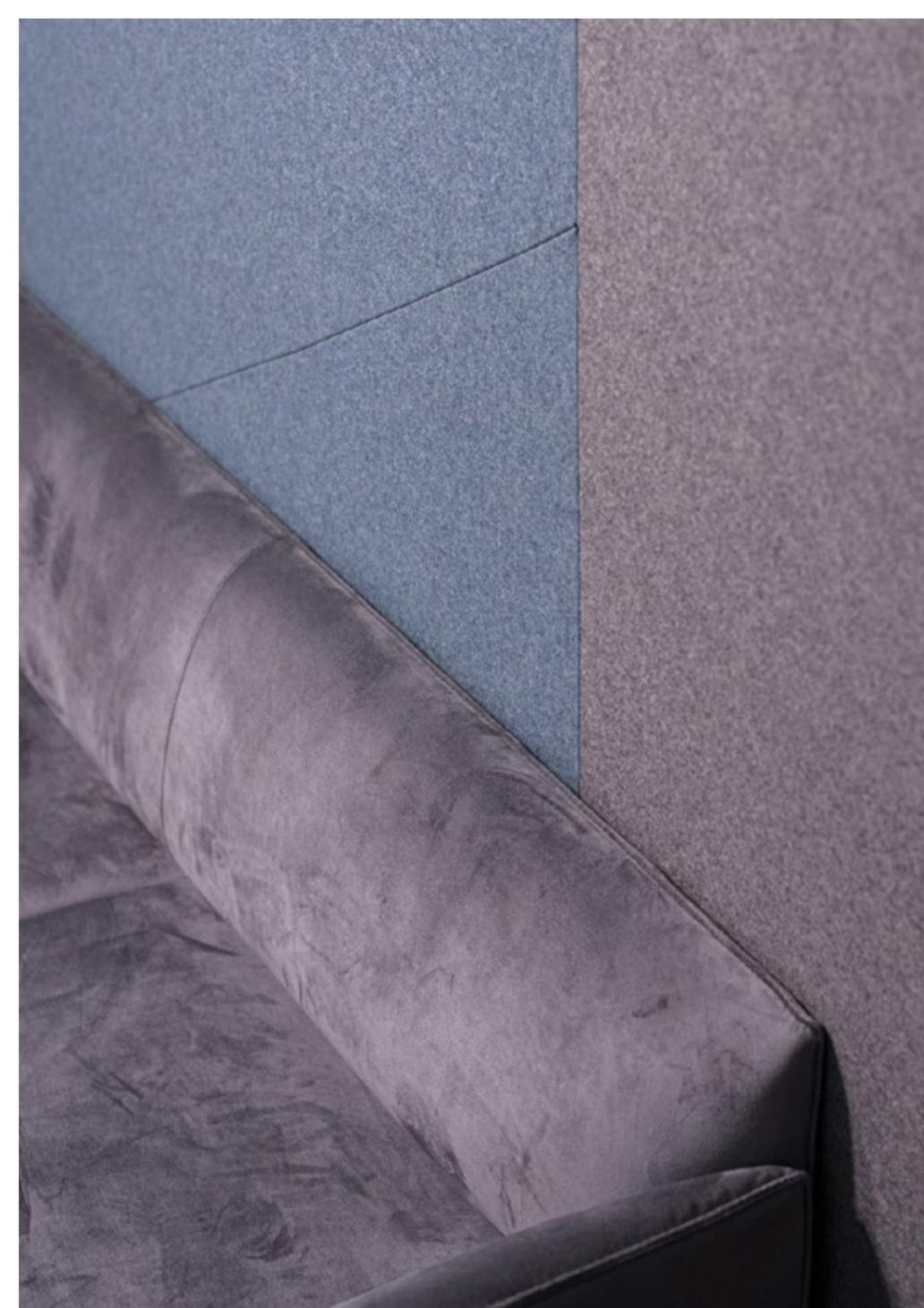
POLYCOM | WARSZAWA



UPFIELD | WARSZAWA



MCKINSEY | WROCLAW



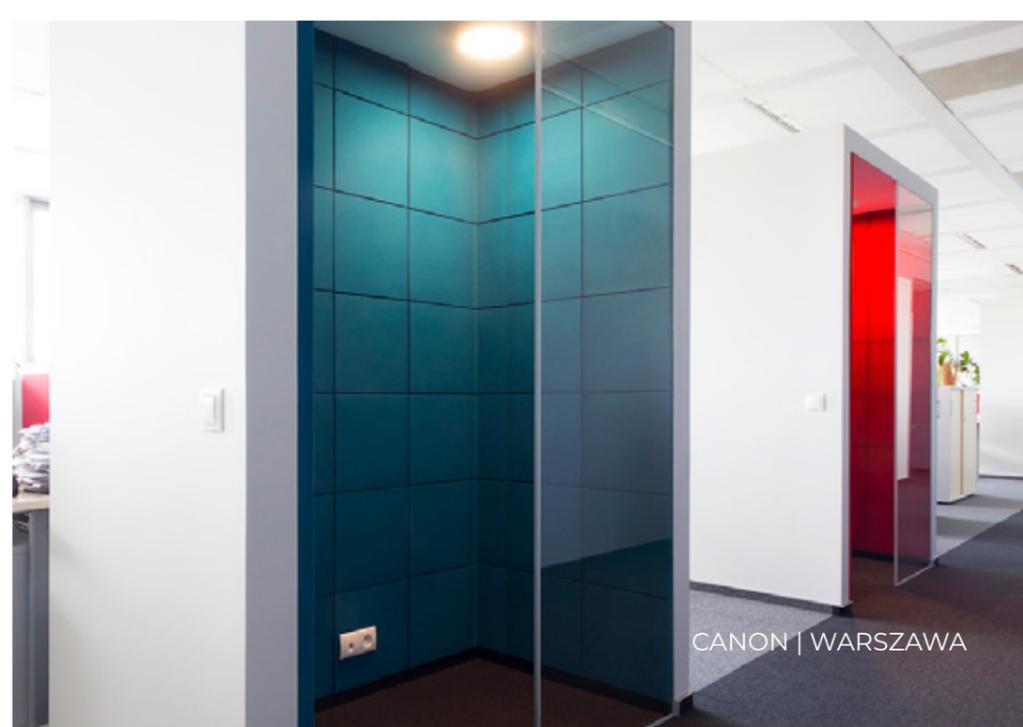
PHONE BOOTHS

The purpose of telephone boxes is to provide employees with places where they can conduct telephone conversations freely. They should not disrupt the work of people in their environment. They can be complete mini-rooms or free-standing, mobile constructions, equipped with independent lighting and ventilation systems. However, what is most important is that they are soundproof, provide adequate acoustic comfort and high intelligibility of speech inside.





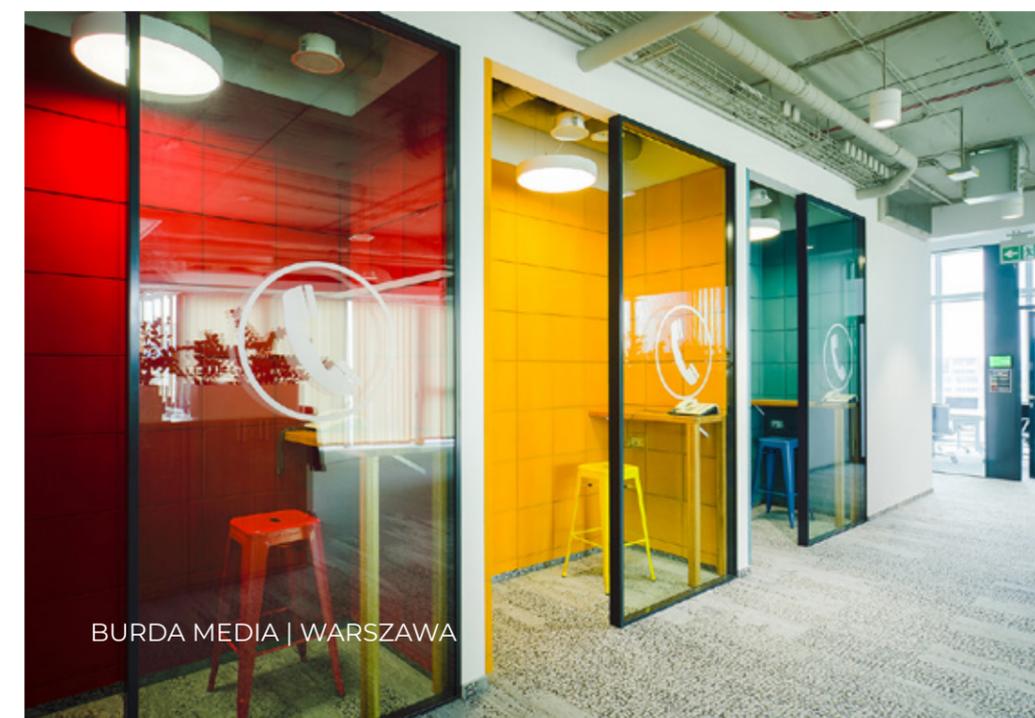
ALLEGRO | WARSZAWA



CANON | WARSZAWA



PFIZER | WARSZAWA



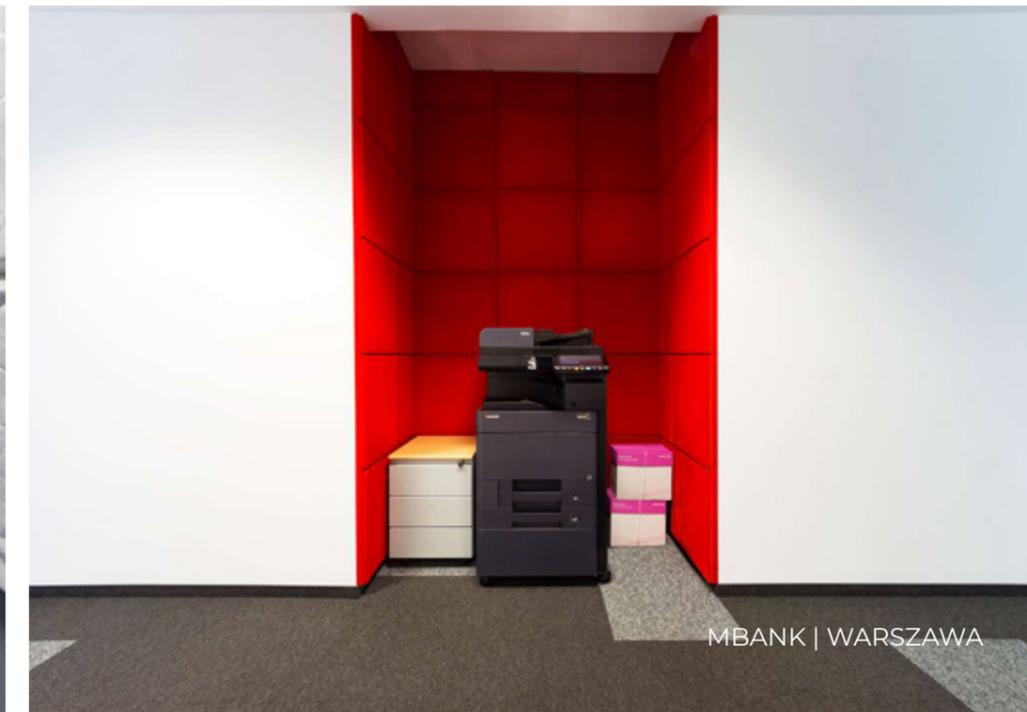
BURDA MEDIA | WARSZAWA



TRANSPOREON | KRAKÓW

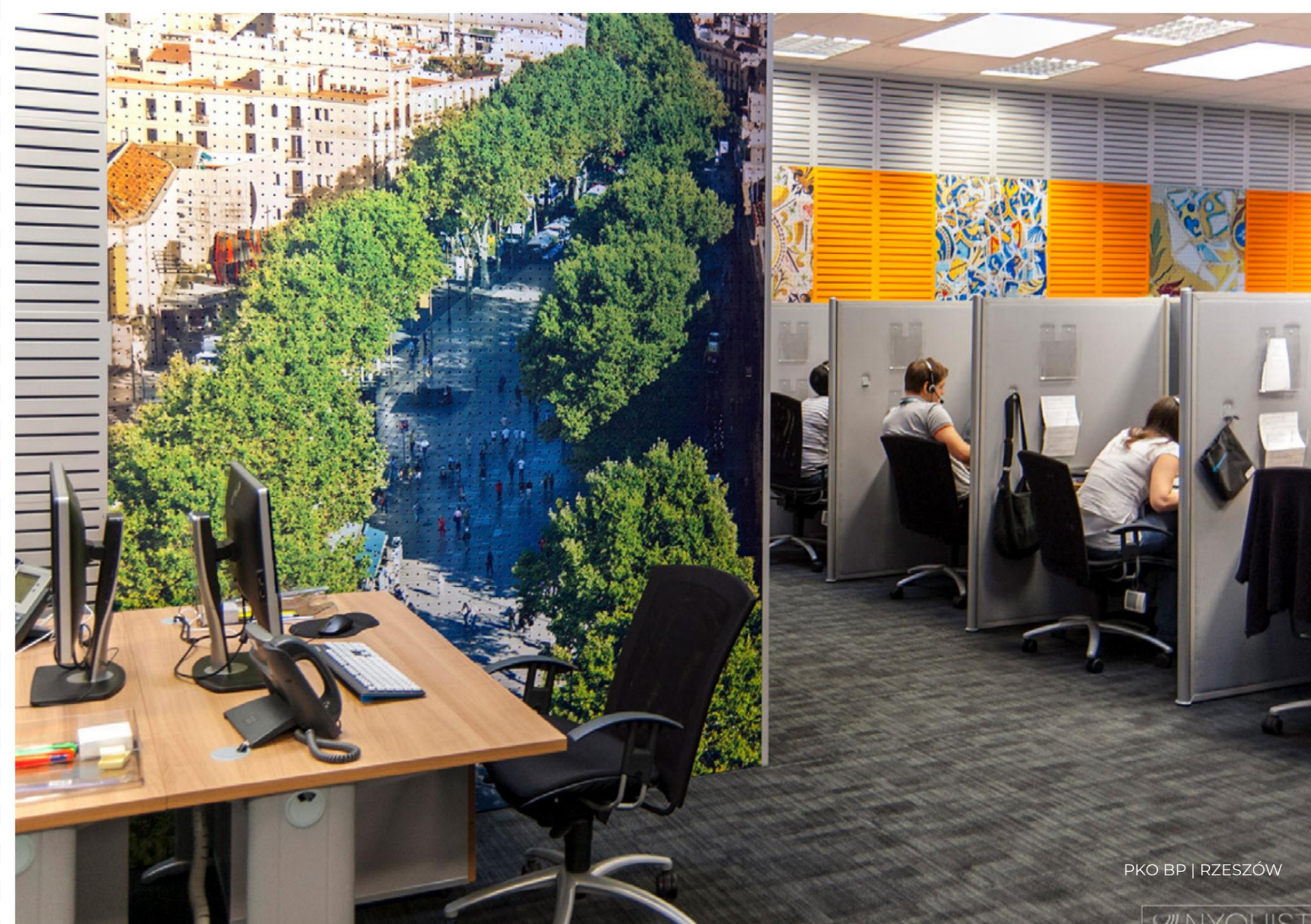
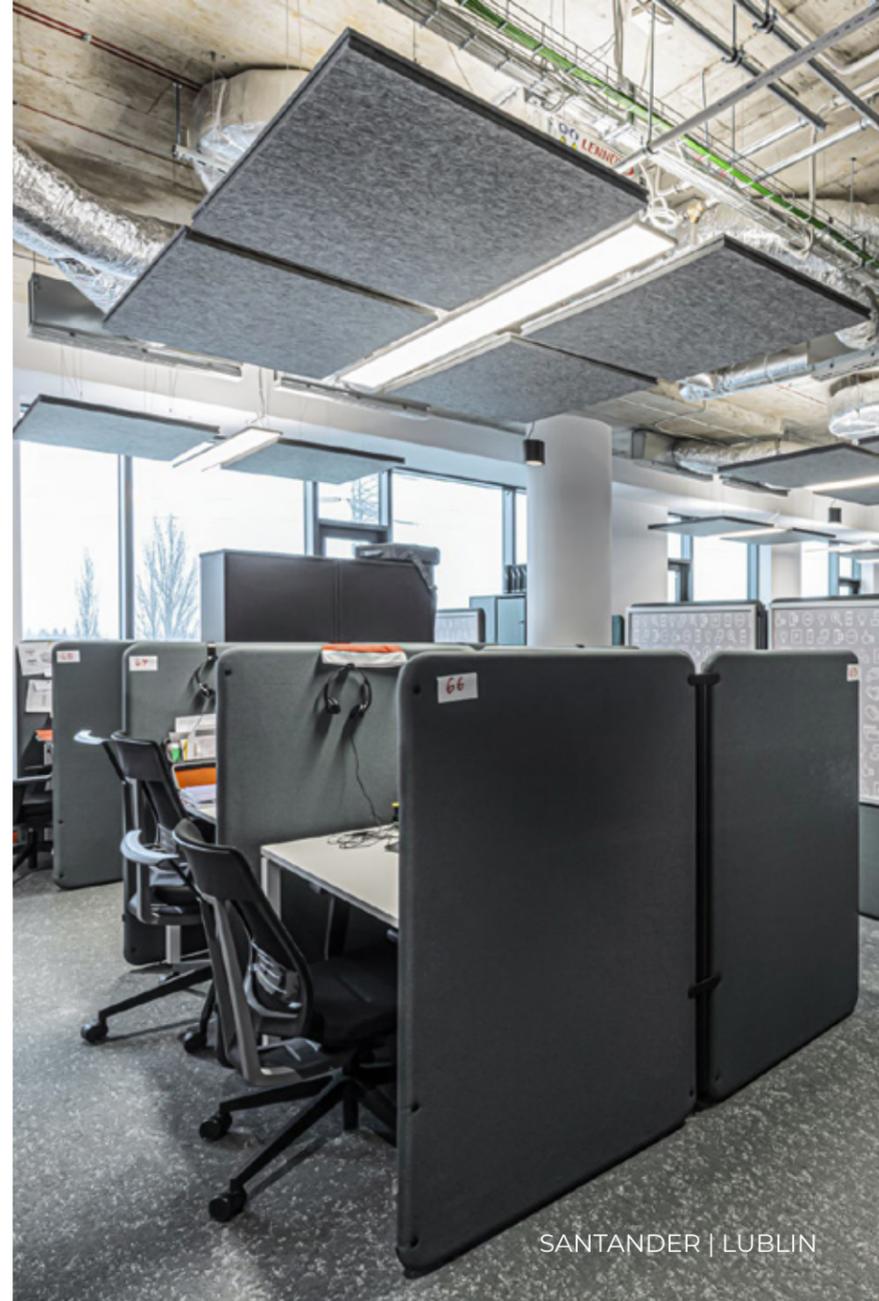
■ COPY POINT

Today's offices are spacious, open spaces, designed to make work as dynamic as possible. A frequent obstacle in achieving this goal is noise, for example from photocopying machines. Special acoustic construction comes to the rescue here. Thanks to the appropriate selection of materials and solid construction, it does not limit access to equipment, but creates a real barrier and effectively isolates even the nearest workstations from noise.

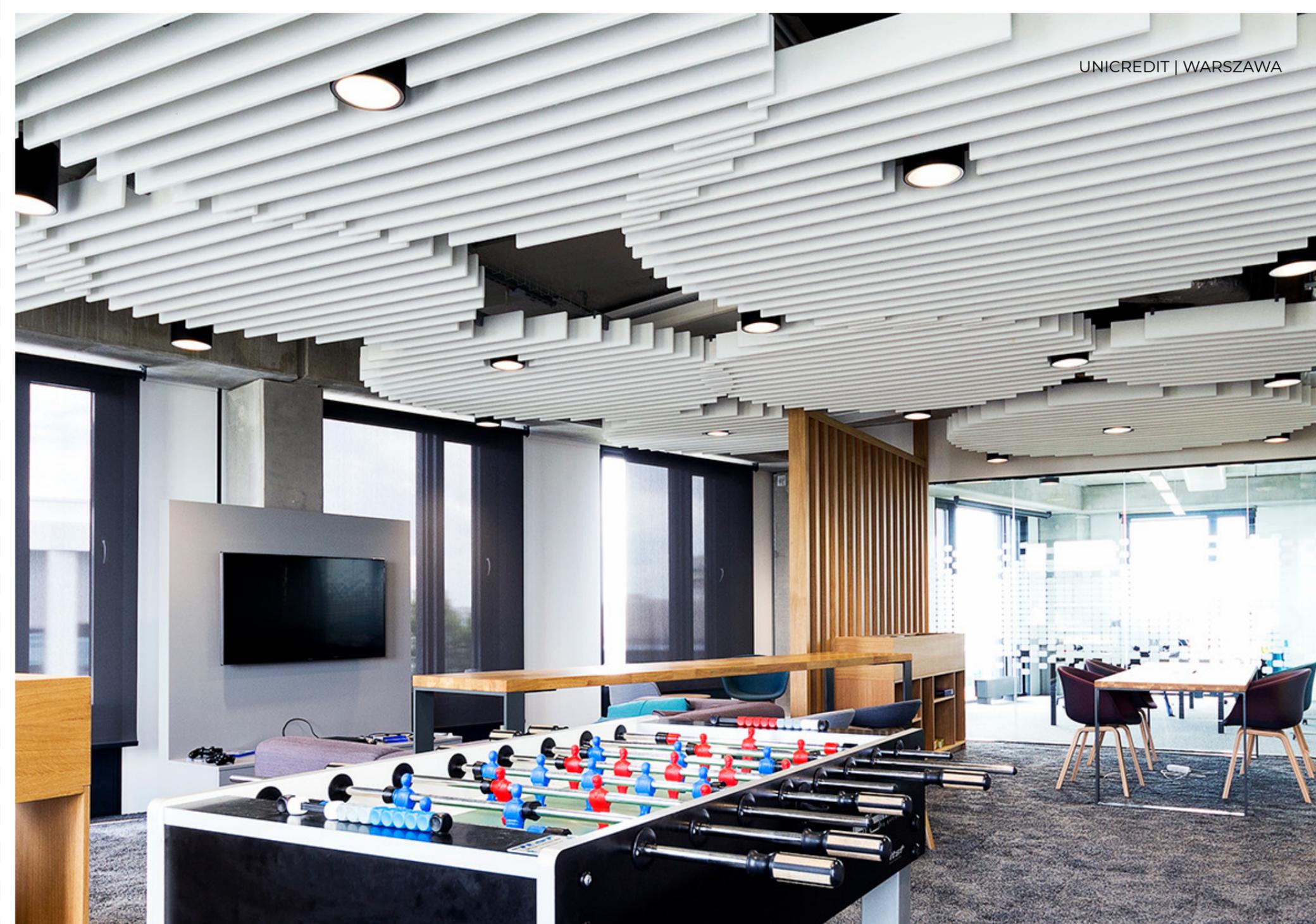
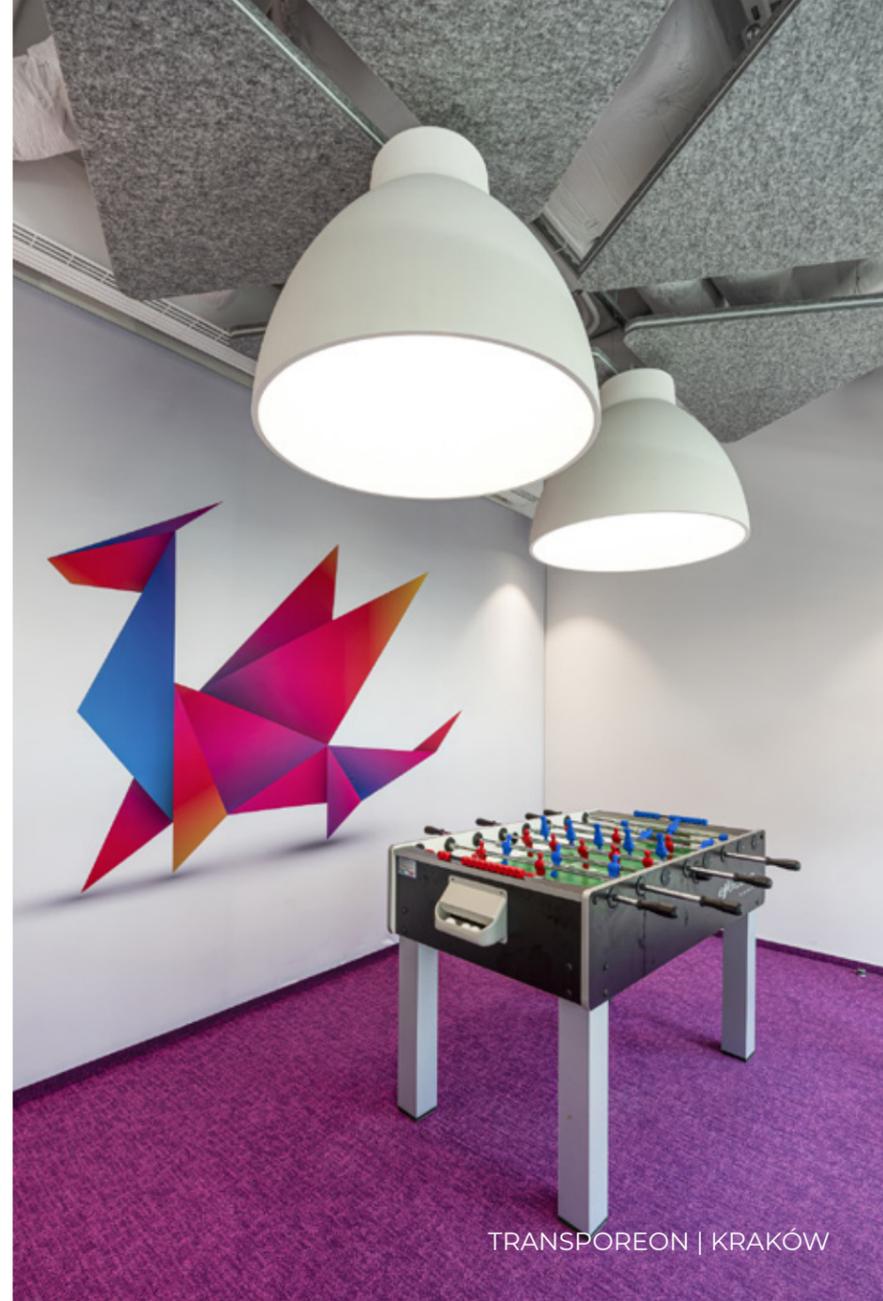


CALL CENTER

High noise (up to 95 dB) in the Call Center is closely related to the nature of the work and high staff density. These factors cause fatigue and disruptions during phone calls. The worse the conditions, the more mistakes we make, our effectiveness decreases and the breaks between conversations become longer. To prevent this, we should use acoustic screens (at least 50 cm above the desk), which ensure greater comfort for the callers and their interlocutors.



MULTIROOM / CHILLOUT ROOM



GOLF SIMULATOR | POZNAŃ



CINELINE | WARSZAWA



NYQUISTA | WARSZAWA



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