ZUM Acoustic Booth

Artistico Furniture
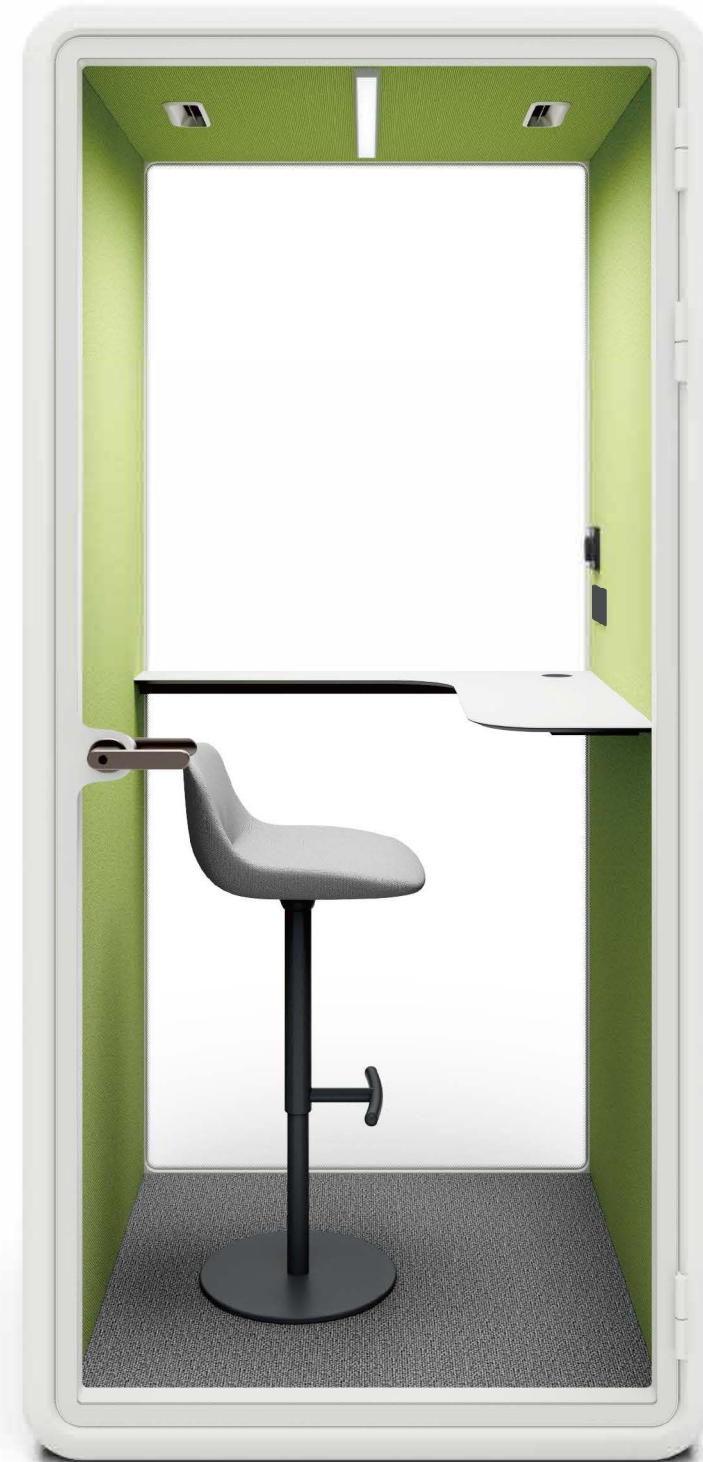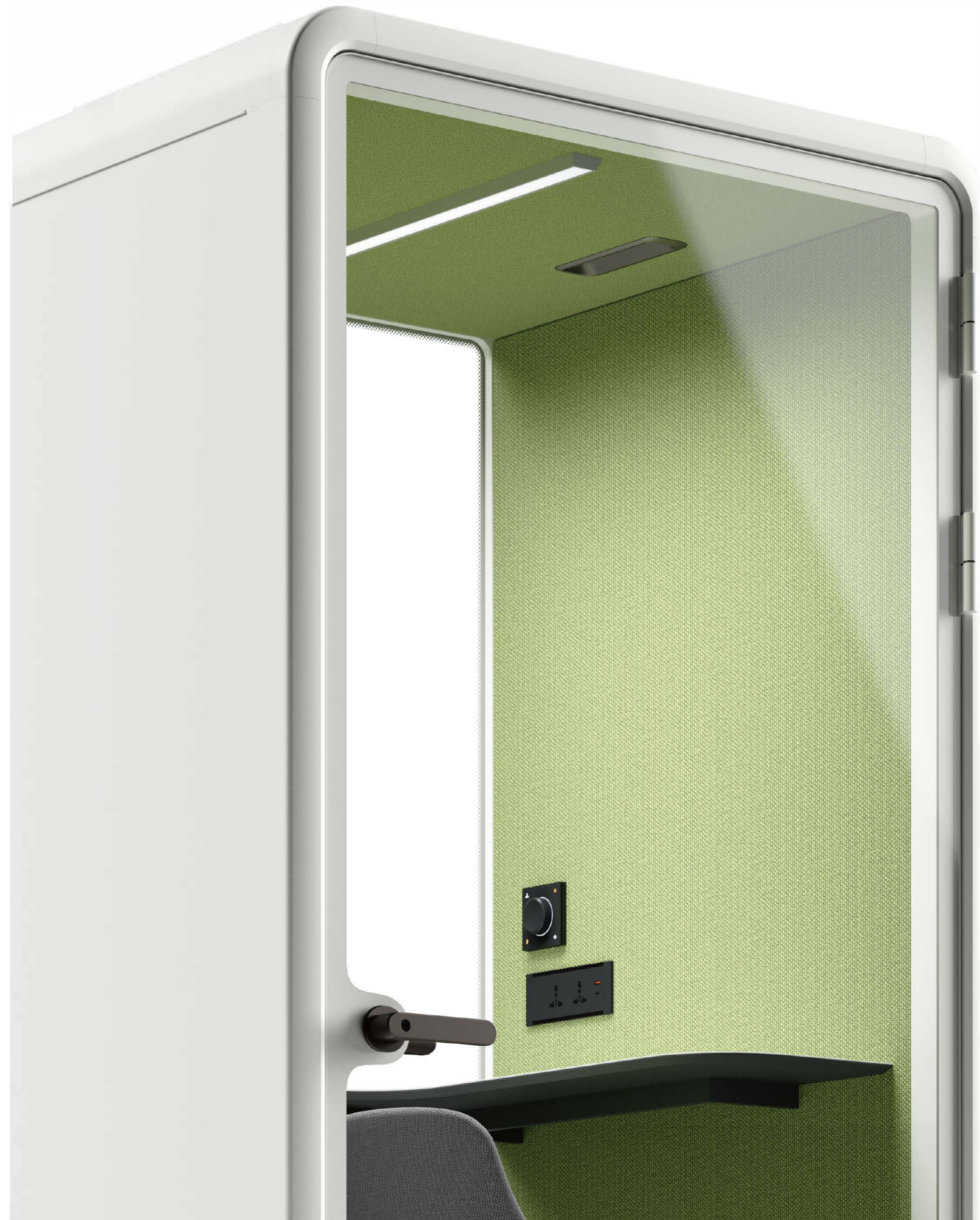
What is ZUM ?

Introducing ZUM, our latest acoustic booth series! Designed with your office needs in mind, our booths are born to create perfect working environment, just like having an extra "**ROOM**" right at your disposal. With modular design, ZUM can be customized to fit your space and quickly assembled within hours, just like a lightning-fast "**ZOOM**." Carefully engineered sound insulation and absorption ensure that unwanted noise and distractions are minimized, allowing you to effortlessly get into the "**ZONE**."

To provide a peaceful and quiet workspace, ZUM is equipped with ergonomic seating, sufficient air ventilation and adjustable lighting, to reduce the fatigue or discomfort from long hours of work . You'll feel refreshed and motivated as you dive into your projects, knowing that you have a dedicated space tailored to enhance your productivity.

Furthermore, rich customizable options available for our booths that allows you to personalize your workspace according to your preferences. Whether you prefer a soothing chat-corner or a "War-room" , ZUM has got you covered.

By investing in ZUM acoustic booths, you are not only elevating your productivity but also redefining the way you work. Experience the power of ZUM and unlock your full potential. Say goodbye to noisy open offices and hello to a space that allows you to concentrate, collaborate, and thrive. Get ready to transform your working experience and embrace a new level of efficiency and focus with ZUM!

03

Unlocking Productivity

Acoustic and Privacy Factors in Open–Plan Offices

"Open–plan" has become the major trend in modern workplaces design. The concept of an open–plan office is based on the idea of creating a collaborative and flexible work environment. However, while this layout offers certain advantages, it also comes with its fair share of challenges, particularly in terms of acoustics and privacy.

The Major issue encountered in open–plan offices is the problem of noise. With multiple employees working in close proximity, noise levels can quickly escalate, leading to distractions and reduced productivity. Phone conversations, discussions between colleagues, and even the sound of typing can all contribute to a noisy and disruptive atmosphere. This constant background noise can make it difficult for employees to concentrate on their tasks and can be especially problematic for those who require a quiet environment to focus.

Another drawback of open–plan offices is the lack of privacy. In a space where there are no physical barriers between worksta-

tions, personal conversations and confidential meetings can become challenging. Employees may feel uncomfortable discussing sensitive matters or engaging in private phone calls due to the lack of privacy. This can lead to a sense of unease and hinder effective communication within the team.

To address the acoustic and privacy issues in open–plan offices, employers have several viable options. Installing sound-absorbing panels, partitions, or cubicles can effectively reduce noise levels and create designated zones for focused work. Another popular solution is the inclusion of acoustic booths, which provide employees with enclosed spaces for private conversations or concentrated tasks. These purpose–built booths are equipped with sound-absorbing materials to create a quiet environment amidst a bustling office. By offering these options, employers can cater to different work needs and create a more harmonious and productive workspace.

The results of office
sound environment survey

■ Very much disturbed by noise
■ Slightly disturbed
■ Not at all disturbed
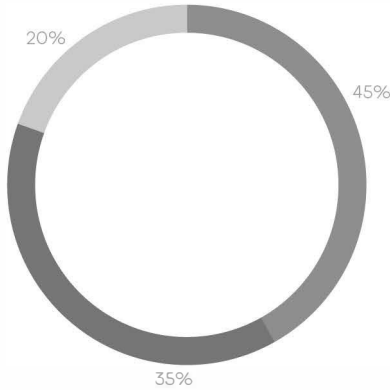
Influence of environmental
requirements on concentration

■ Noise
■ Inadequate lighting
■ Inadequate microclimate
■ Residual concentration

30mins

an active worker loses on average thirty minutes of work per day because of annoyance related to noise.

– JNA association

66%

office workers are 66% less productive in an open–plan office than when left on their own.

– Julian Treasure, The Sound Agency

23mins

It takes an average of 23 minutes and 15 seconds, to return to the original task after an interruption

– Gloria Mark, University of California, Irvine

48%

short–term memory recall decreases when employees are exposed to high noise levels compared to those in a quieter environment.
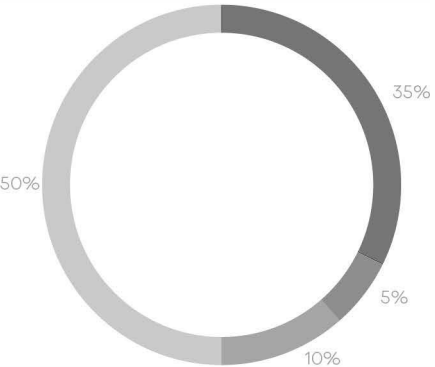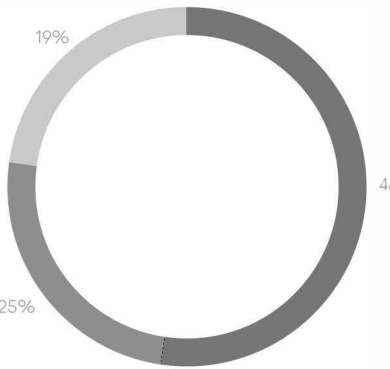
– Journal of Applied Psychology
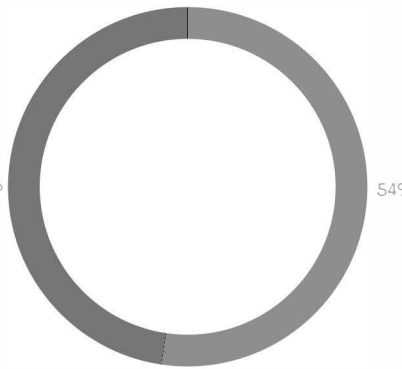

20% 45% 35%

35% 50% 5% 10%

Noise sources were
found to be disturbing

■ Conversations
■ Office machines
■ Telephones.

Ratio of employees that report
feeling often bothered by noise

■ Unreported
■ Reported

19% 46% 25%

46% 54%

* Acoustic Satisfaction in Open-Plan Offices: Review and Recommendations
by Manna Navai, Jennifer A. Veitch

* Acoustic Issues in Open Plan Offices: A Typological Analysis
by Sara Delle Macchie, Simone Secchi *ORCID and Gianfranco Cellai

Excessive noise in the office environment can have a detrimental impact on productivity, concentration, and overall well-being. Distractions from conversations, phone calls, equipment, and other sources of noise can disrupt concentration, making it difficult for employees to focus on their tasks. This not only leads to decreased productivity but also increases the likelihood of errors and mistakes. Prolonged exposure to high levels of noise can also cause stress, fatigue, and even physical health issues

such as headaches and elevated blood pressure. Additionally, noise pollution can affect communication and collaboration among team members, hindering effective teamwork and contributing to misunderstandings. Overall, the harmful effects of noise in the office underscore the importance of creating a quiet and conducive work environment for optimal performance and well-being.

04

Why an
office needs ZUM?

ZUM, a thoughtfully designed space that takes into consideration the diverse work patterns and activities that employees engage in throughout the day. Not only does it provide excellent sound isolation, but it also offers a range of amenities and equipment within arm's reach, allowing for seamless and efficient daily work. With adjustable lighting, ventilation, and power supply, our booth enhances productivity, fosters collaboration, and promotes personal well-being. Experience the difference with ZUM Acoustic Booth and discover a new level of productivity and comfort in your workday.

- ① Air Ventilation
- ② Lamintaed Glass
- ③ Environment Control
- ④ Aluminum Frame
- ⑤ LED Ceiling Lights
- ⑥ Upholstered Interior
- ⑦ Power Supply
- ⑧ Compact Laminate Furniture

Solo Working
Quiet and focused environment for an individual

Phone Calls & Video Conferences
Perfect setting for important phone calls or participating in virtual meetings

Group Meetings
Small group discussion could happen here without disturbing others

Private Conversations
Ideal for confidential discussions or one-on-one meetings

Reading & Meditation
Creating an ideal space for personal reflection or diving into a good book

Rapid Installation
The modular design allows an office to have a new room within several hours

05

Environment Control

Tailor your experience

We implanted a self-developed environment control system. With the dimmer panel, users have full control over the ventilation speed, light strength, and light temperature, allowing them to create a personalized and ideal working environment that promotes productivity and well-being.

The ability to adjust the ventilation speed ensures that users can maintain a comfortable airflow within the booth, preventing stuffiness or discomfort. Whether you prefer a gentle breeze or a more powerful air circulation, the choice is yours. This feature not only contributes to a pleasant atmosphere but also helps in maintaining focus and alertness throughout the workday.

The adjustable light strength and temperature further enhance the customization options available to users. Adequate lighting is crucial for reducing eye strain and promoting concentration. With the ability to control the light intensity, users can create the perfect balance between brightness and ambiance that suits their specific tasks and preferences. Additionally, being able to adjust the light tem-

perature allows users to set the mood according to their needs, whether it's a warm and cozy atmosphere or a cooler, more invigorating environment.

Incorporating an infrared (IR) sensor into the booth design adds convenience and energy efficiency. As soon as a user steps into the booth, the IR sensor detects their presence and automatically activates the ventilation system and lighting, eliminating the need for manual adjustment. This seamless experience ensures that users can quickly settle into their workspace without any interruptions or delays.When the user leaves the booth, the IR sensor is smart enough to detect their absence and automatically shuts off the lighting and reduces ventilation to conserve energy within certain time.

Users can also switch to manual mode through the power button to keep the lights and ventilation on and off for longer. These energy-saving features not only contributes to a more sustainable workplace but also saves costs on electricity bills.

Ventilation volume

Light brightness

Light color temperature

Master switch

Air ventilation

Feel just like in the office

02
Centrifugal fan

The fan noise becomes apparent when it is quiet in the booth. We use centrifugal fans for air intaking to achieve smoother airflow at lower speeds, creating less noise.

01
Balanced air pressure

We apply fans for both air intake and outtake to keep the air pressure the samefrom the outside environment. That helps the door insulation and keeps the user away from the uncomfortable "Airplane ear" (ear barotrauma)

04
Acoustic air duct

Inspired by the acoustic plenum, we applied sound-absorbing material in the duct to attenuate sound exchange between inside and outside maximally.

03
Automatic refresh

Every 30 mins, the fan will start to ventilate the air automatically for 5 mins, which keeps the duct and booth dry, smelling fresh, and ready for the following user.

06

Lighting

Essential Eye-caring

With the OSRAM LED module and glare-reducing prismatic lenses, the light delivers a CRI (color rendering index) of 92, ensuring true-to-life colors that enhance visual accuracy in booth spaces.

The flicker-free emitting feature minimizes eye fatigue during extended work hours and provides a comfortable and soothing lighting experience, promoting focus and keeping eye health.
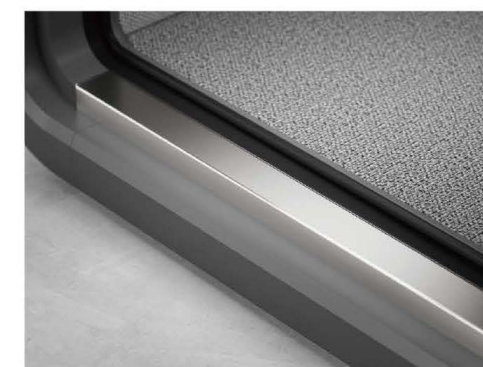
Ra 92

Flicker Free

Anti Glare

Details

More than just acoustic

Magnetic door lock

Lever handle lock with magnetic deadbolt.

Stainless steel door thread

Stainless steel made that you could customize your label on.

Concealed door closer

Concealed cam-action door closer.

Compact laminate table

Compact laminate, scratch and chemical resistant, optional MDF board available.

Modular power outlet

With USB type A/C, Optional multitype socket and keystone module available.

We understand that a well-designed booth not only attracts attention but also encourages engagement and interaction, so we place great importance on creating booth products that not only catch the eye but also provide an exceptional user experience. With meticulous attention to detail, we carefully designed every aspect of our booths to ensure optimal usability. Our goal is to create a seamless and enjoyable experience for all users, allowing them to effortlessly enjoy this acoustic sanctuary.

07

Speech Level Reduction of 30dB
in ISO 23351-1:2020

01

Firmly sealed
Dual sealing strap on door frame and glass edge ensures a tight seal and minimizes sound leakage.

Glass

Out

In

Frame

Frame

Out

In

Door

03

Composition of wall
The side wall of our acoustic booth consists of multiple layers of acoustic material, specifically designed to effectively block and absorb sound.

02

Low-frequency blocked
Dampening material is used between feet and floor to reduce the structure-borne Low-frequency transmission.

04

Reinforced transparency
Laminate glass is used for better sound proofing while keeping the transparency.

08

Easy to assemble, move and extend

Born for the changing office need

In a mere 1 hour, a new booth will appear in your office with the work of minimal 2 people(S model). The modular design enables a swift installation process. This efficient setup requires no trimming, bolting; or gluing, no waste generated during installation process, all packaging materials can be recycled, allowing immediate use.

S model
can be build

in　　　　by

-1hr-
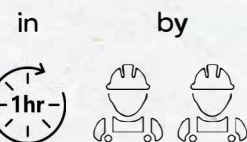
Optional castor wheels, making it easy to move and reposition as needed. This mobility ensures that you can adapt the booth's location according to your changing requirements or room configurations.

Additionally, ZUM can easily be extended to a larger size to cater to various client requirements. 2 or more booths could be combined into a bigger one for temporary use by using special connect parts, like hosting large-scale events. You could also order new body parts to change permanently. Regardless of the challenges, ZUM can always swiftly adapt to meet new tasks with optimal performance.
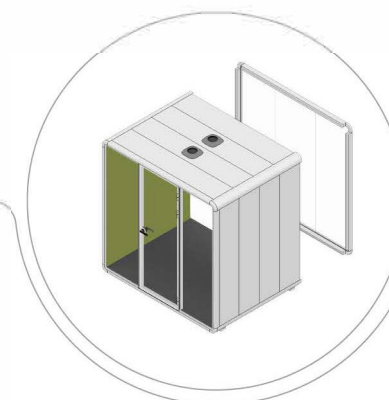
Remove the back frame
and glass of the booth

01
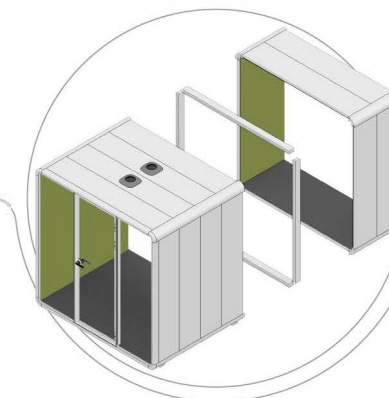
Connect the booth with
the extensional parts by
connect frame

02
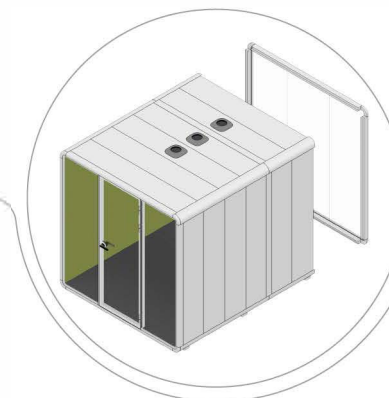
Put the back frame
and glass back.

03
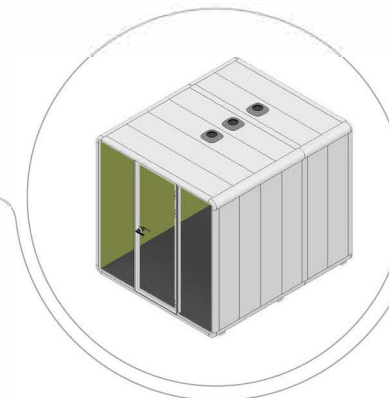
Finished

04

Model S

Your Personal Oasis in the Office!

Model S, a versatile and compact work-space solution that is perfect for solo working, phone calls, and meditation. With its dimensions of 1 ㎡ , this portable booth can be easily placed anywhere in the office, providing a private and quiet space for focused work or confidential conversations.

Parameter

Ext. size

1080mm (42.5")

1000mm (39.4")

2326mm (91.6")
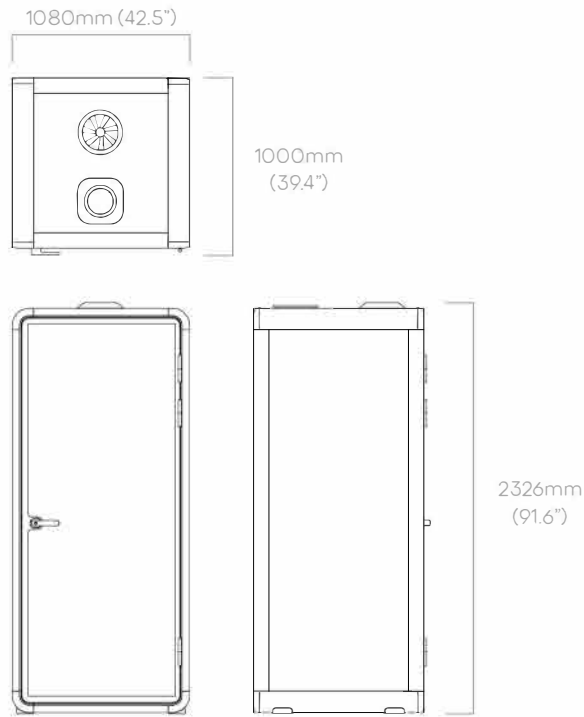
Int. Size
W: 942mm （37.1"）
D: 960mm （37.8"）
H: 2146mm （84.5"）

Door Passage
W: 918mm （36.1"）
H: 2118mm （83.4"）

Floor Space
≈ 1㎡ (10.76 sq.ft)

Net Weight
265 kg （584.2 lbs）

Pkg. Size
W: 2320mm （91.3"）
D: 580mm （22.8"）
H: 1265mm （49.8"）

Technical Features

Capacity	👤
Ventilation	0~49m³ (1729.7cu.ft.) /hr adjustable, ≈2.5mins/change, auto-refresh
Lighting	3000k-6000k, 0-1800lm, adjustable, Anti-glare index 20, CRI 92Ra, flicker-free
Power	Maximum 40W
Acoustic	**30dB, Class A in ISO 23351**
Power outlet	5 Hole universal outlet x 2, USB TypeA x 1, USB TypeC x 1

WM perch seat
+
WM shelf table

Pneumatic adjustable stool
+
WM L-shape shelf table

Square bench
+
C-table

Model SL

Elevate Communication, Inspire Collaboration

Model SL is specifically designed to fit in narrow areas such as corridors, optimizing the use of available space. Its slim body of 2.3m*1.0m makes it incredibly convenient to set up in any office setting for a comfortable acoustic chat room, providing employees with easily accessible areas for face-to-face conversations. Whether it's a quick catch-up or a confidential meeting, the SL booth offers a seamless and hassle-free solution for fostering effective communication in the workplace.

Parameter

Ext. size

2300mm (90.6")

966mm (38")

2326mm (91.6")
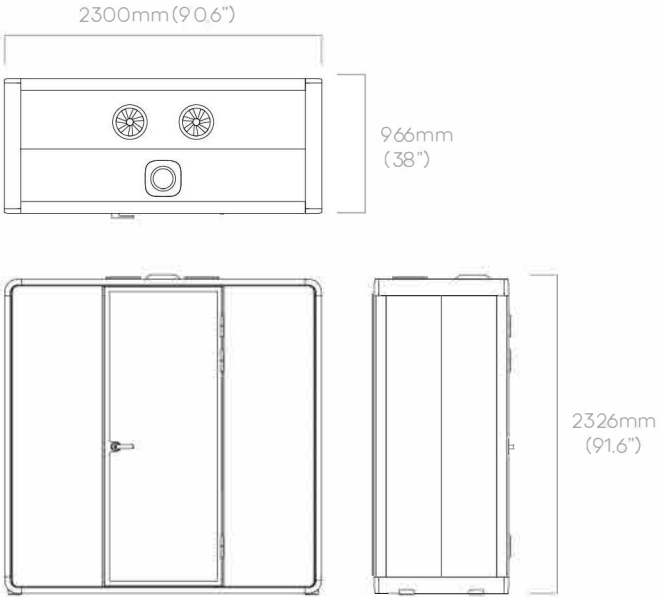
Int. Size
W: 2162mm (85.1")
D: 926mm (36.5")
H: 2146mm (84.5")

Door Passage
W: 741mm (29.2")
H: 2118mm (83.4")

Floor space
≈2.2m² (23.68sq.ft)

Net Weight
265 kg (584.2 lbs)

Pkg. Size
W: 2320mm (91.3")
D: 760mm (29.9")
H: 1265mm (49.8")

82 couch x 2
+
Trapezoidal coffee Table

82 couch x 2+ Back pilaster
+
Trapezoidal coffee Table

Technical features

Capacity	👤👤
Ventilation	0~74m³ (2612.2cu.ft.) /hr adjustable , ≈4mins/change, auto-refresh
Lighting	3000k-6000k, 0-1800lm, adjustable, Anti-glare index 20, CRI 92Ra, flicker-free
Power	Maximum 60W
Acoustic	**30dB, Class A in ISO 23351**
Power outlet	5 Hole universal outlet x 2, USB TypeA x 1, USB TypeC x 1

Model L

Seamless Meetings, seamless creativity

Model L, a versatile and innovative 2.3m*1.8m room that effortlessly accommodates up to 4 people for meetings or serves as a spacious supervisor office. Its exceptional acoustic features ensure crystal-clear sound during video conferences, eliminating echo or external noise disruptions. With its clever design and ample space, the L booth provides a tranquil environment for focused work and privacy, making it a perfect solution for both collaborative sessions and individual productivity.

Parameter

Ext. size

2300mm（90.6"）

1785mm（70.3"）

2326mm（91.6"）
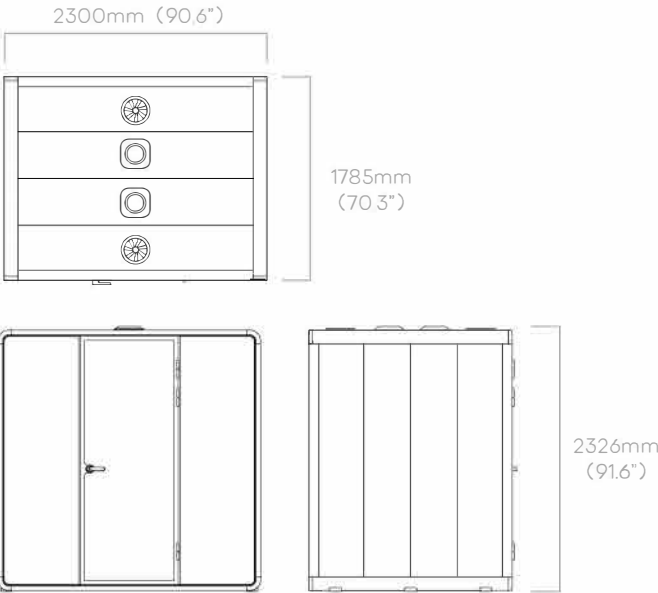
Int. Size

W: 2162mm（85.1"）
D: 1745mm（36.5"）
H: 2146mm（84.5"）

Door Passage

W: 741mm（29.2"）
H: 2118mm（83.4"）

Floor space

≈2.2㎡（23.68sq.ft）

Net Weight

265 kg（584.2 lbs）

Pkg. Size

W: 2320mm（91.3"）
D: 1000mm（29.9"）
H: 1265mm（49.8"）

Technical features

Capacity	👤👤👤👤
Ventilation	0-148m³（5224.4cu.ft.)/hr adjustable，≈3.5mins/change, auto-refresh
Light	3000k-6000k, 0-1800lm, adjustable, Anti-glare index 20, CRI 92Ra, flicker-free
Power	Maximum 100W
Acoustic	**30dB, Class A in ISO 23351**
Power outlet	5 Hole universal outlet x 2, USB TypeA x 1, USB TypeC x 1

163 couch x 2
+
125 meeting table

163 couch x 2 + Back pilaster
+
WM 125 meeting table

Ergonomic office chair
+
Electrical adjustable desk

200 L-shape couch
+
C-table

Model XL

Unleash Collaborative Excellence

Model XL is a highly adaptable and spacious meeting room of 2.6m*2.5m, comfortably accommodating up to six individuals. Its strategic positioning near the workstation area ensures quick and seamless communication among project teams. With the ability to customize its size, the XL booth offers flexibility to meet the need for larger meetings or other scenarios more than just in the office.

Parameter

Ext. size

2600mm（90.6"）

2487mm（97.9"）

2326mm（91.6"）
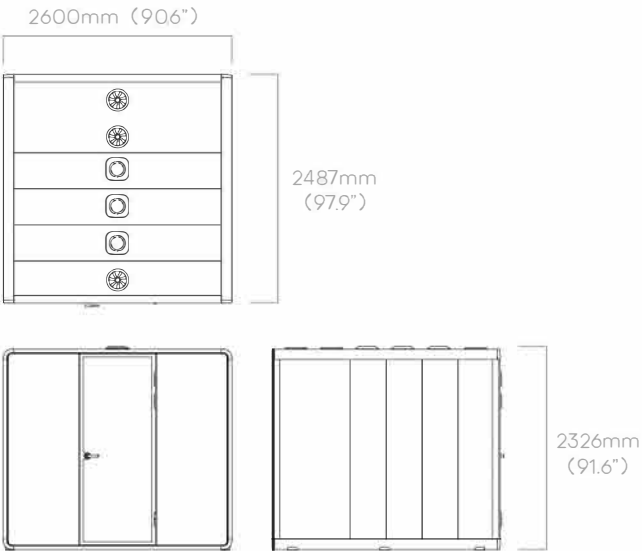
Int. Size

W: 2462mm（96.6"）
D: 2447mm（96.3"）
H: 2146mm（84.5"）

Door Passage

W: 741mm（29.2"）
H: 2118mm（83.4"）

Floor space

≈6.46㎡（69.6sq.ft.）

Net Weight

265 kg（584.2 lbs）

Pkg. Size

W: 2320mm（91.3"）
D: 760mm（29.9"）
H: 1265mm（49.8"）
+
W: 2600mm（102.4"）
D: 760mm（29.9"）
H: 1265mm（49.8"）

Technical features

Capacity	👤👤👤👤👤👤
Ventilation	0-221m³ (7801.3cu.ft.) /hr Adjustable， ≈4mins/change, auto-refresh
Light	3000k-6000k, 0-1800lm,adjustable, Anti-glare index 20, CRI 92Ra, flicker-free
Power	Maximum 120W
Acoustic	**30dB, Class A in ISO 23351**
Power outlet	5 Hole universal outlet x 2, USB TypeA x 1, USB TypeC x 1

Meeting chair x 6
+
180 meeting table

Pneumatic adjustable stool x 6
+
Back pilaster
+
WM 180 bar table

Swivel armchair x 4
+
Rounded table

230 L-shape couch
+
C-table

13

Acoustic
information

What is ISO 23351-1:2020 ?

ISO 23351-1:2020 is a recently introduced standard that assesses the extent to which phone booths, work pods, and other furniture combinations reduce speech levels. Through a designated test, it calculates a metric known as "speech level reduction," represented as D S,A (decibels/dB). This standard marks the first of its kind specifically dedicated to booths and similar partially enclosed furniture units. Based on the degree of speech level reduction they offer, office pods are categorized into classes A+, A, B, C, or D. Office pods in classes A+, A, and B ensure the highest level of speech privacy.

How to reduce sound propagation ?

- Utilize high-density soundproofing materials, such as metal, concrete and glass, on primary surfaces toeffectively attenuate the transmission of sound waves.

- Optimize gap sealing through the application of waterproof adhesive, sealing strips, or other appropriate sealing materials to ensure minimal noise leakage.

- In areas where achieving complete insulation is impracticable, like ventilation ducts, maximize thedistance for sound travelling and apply sound-absorbing materials along the path, such as PET acoustic felt, to dissipate sound energy.

What is STC and NIC?

STC (Sound Transmission Class) is a way to measure how well a material can block sound. It's often used to test partitions, like walls and screens. The higher the STC number, the better the partition is at stopping sound. STC is important for evaluating partitions that separate areas where people talk.

NIC (Noise Isolation Class) measures how well two rooms are insulated from sound after construction. Higher NIC values mean better sound insulation between rooms.

STC and NIC are similar, but they also have differences. NIC is a field measurement, which means it's taken in the actual space, while STC is a laboratory measurement. Since STC is not done in the actual space, it doesn't consider factors like sound absorption in the room receiving the sound. This makes NIC more comprehensive for evaluating sound insulation in both rooms, not just the partition between them. Both measurements can be helpful for checking sound insulation.

What is Speech intelligibility ?

Speech intelligibility refers to the ability of a listener to understand and comprehend spoken words or messages. It measures how clear and easily understandable speech is in various contexts, such as public address systems, telecommunications, broadcast media, or live performances. Factors that affect speech intelligibility include pronunciation, articulation, volume, background noise, and the quality of the audio transmission system. High speech intelligibility is desirable to ensure effective communication and minimize misunderstandings.

What is Centrifugal fan ?

Different from axial fan which is commonly encountered, centrifugal fan is normally constructed as a fixed drum shape with a number of impellers. Centrifugal fans move air radially. The airflow created passes through a system of tubes or ducts which creates a higher pressure airflow, making them ideal for aspirating, cooling, ventilating and conveying air.

What is Laminate glass?

Laminate glass, also known as safety glass, is widely used for soundproofing purposes due to its unique construction. Comprised of multiple layers of glass bonded together with a polyvinyl butyral (PVB) interlayer, laminate glass effectively reduces noise transmission by absorbing and dissipating sound waves. This design minimizes the transfer of external noise into the interior environment, creating a quieter and more peaceful atmosphere. Additionally, laminate glass offers enhanced security, protection against UV rays, and is commonly utilized in windows, doors, and partitions to achieve better soundproofing in areas exposed to high levels of noise.
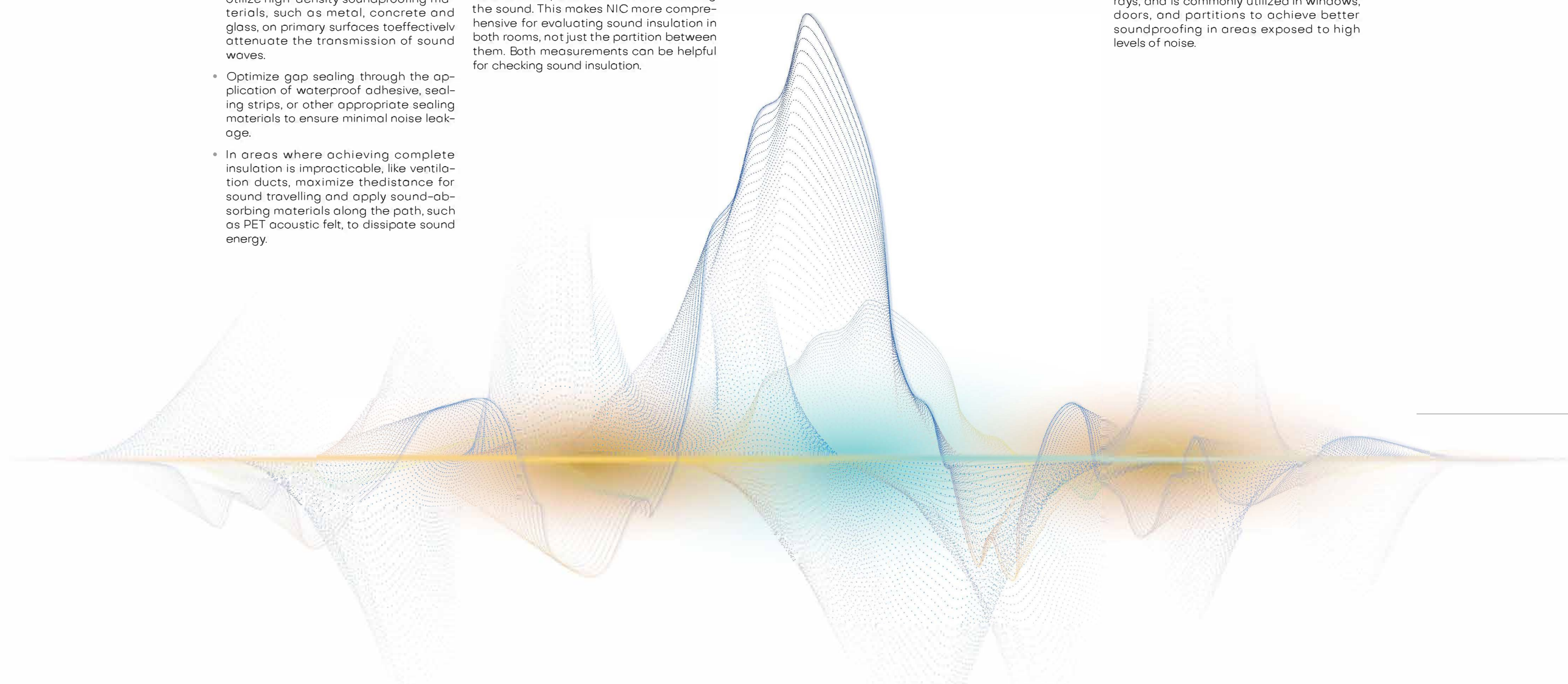
99%
Recyclable

By choosing recyclable materials, we contribute to reducing our carbon footprint and preserving the earth's resources. Our dedication to sustainability extends to every aspect of our production process,from sourcing to manufacturing. We take pride in using materials of exceptional quality and eco-friendliness in our products. We are committed to offering you the best while caring for the environment.
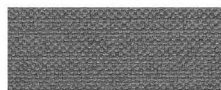
Surface Materials

Exterior Cladding - Powder coating & Vinyl film

S-01	S-02	S-04	S-05
S-06	S-07	S-08 For side wall only	S-09

Interior - PET acoustic felt

LY-803	LY-817	PB2024	PC2002

Interior - Fabric

DK-82	DK-86 Furniture standard	DK-88	DK-22
DK-11	DK-12	DK-85	DK-48
DK-60	DK-63	DK-68	DK-40
DK-61	DK-53	DK-58	DK-43
HY-5003	HY-5005	HY-5012	HY-5014
HY-5019	HY-5021	HY-5028	HY-5032

Furniture - Melamine & Powder coating

T-01 For compact lanminate	T-02 For compact lanminate	T-03 For powder coating MDF	T-04 For powder coating MDF

- More fabric colours available, please contact us for details.
- Customer-provide fabric accept.

![Artistico Furniture logo]

Thank You!