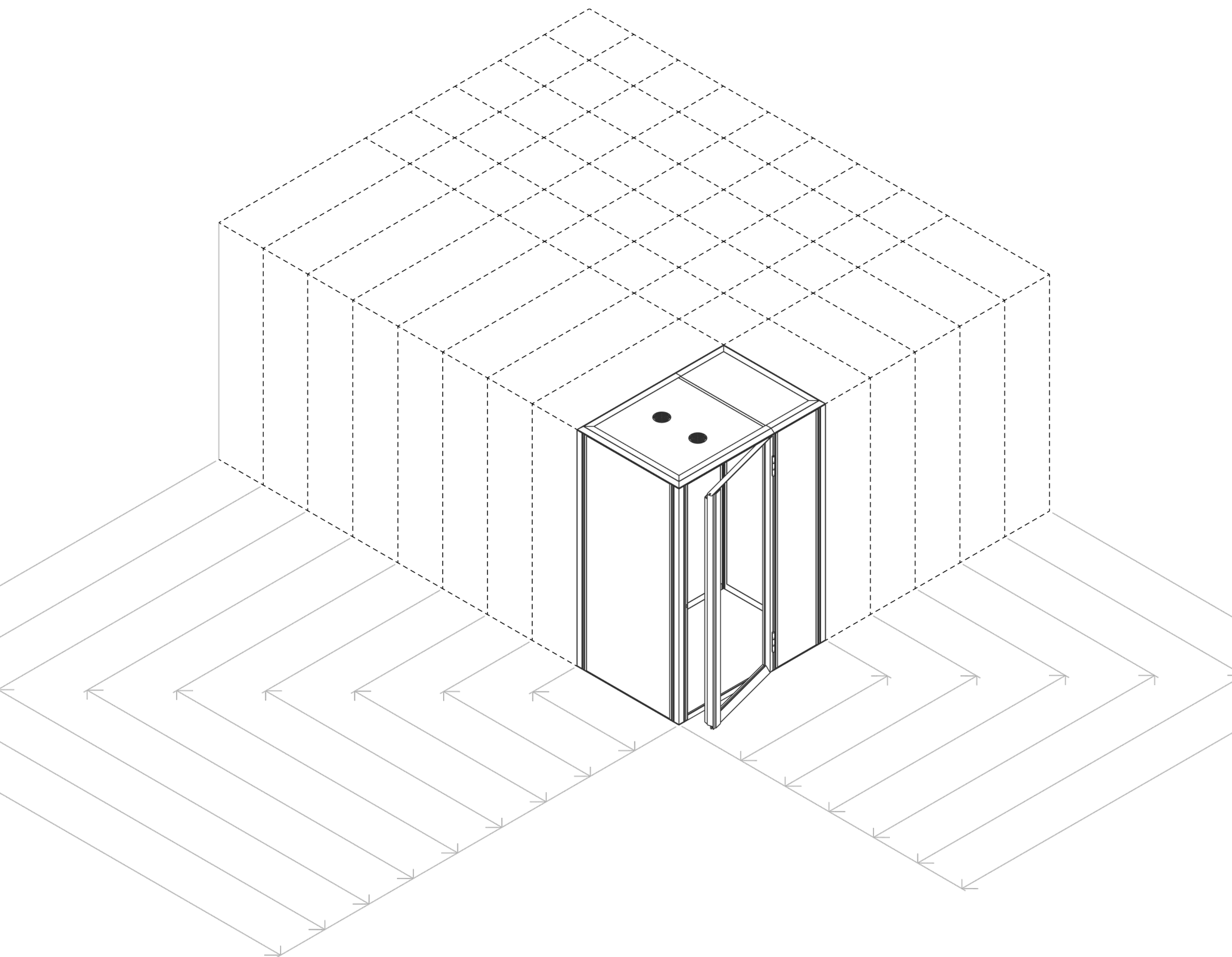


Modular | MUTE.

Mute Modular Factsheet

09/25 | EN

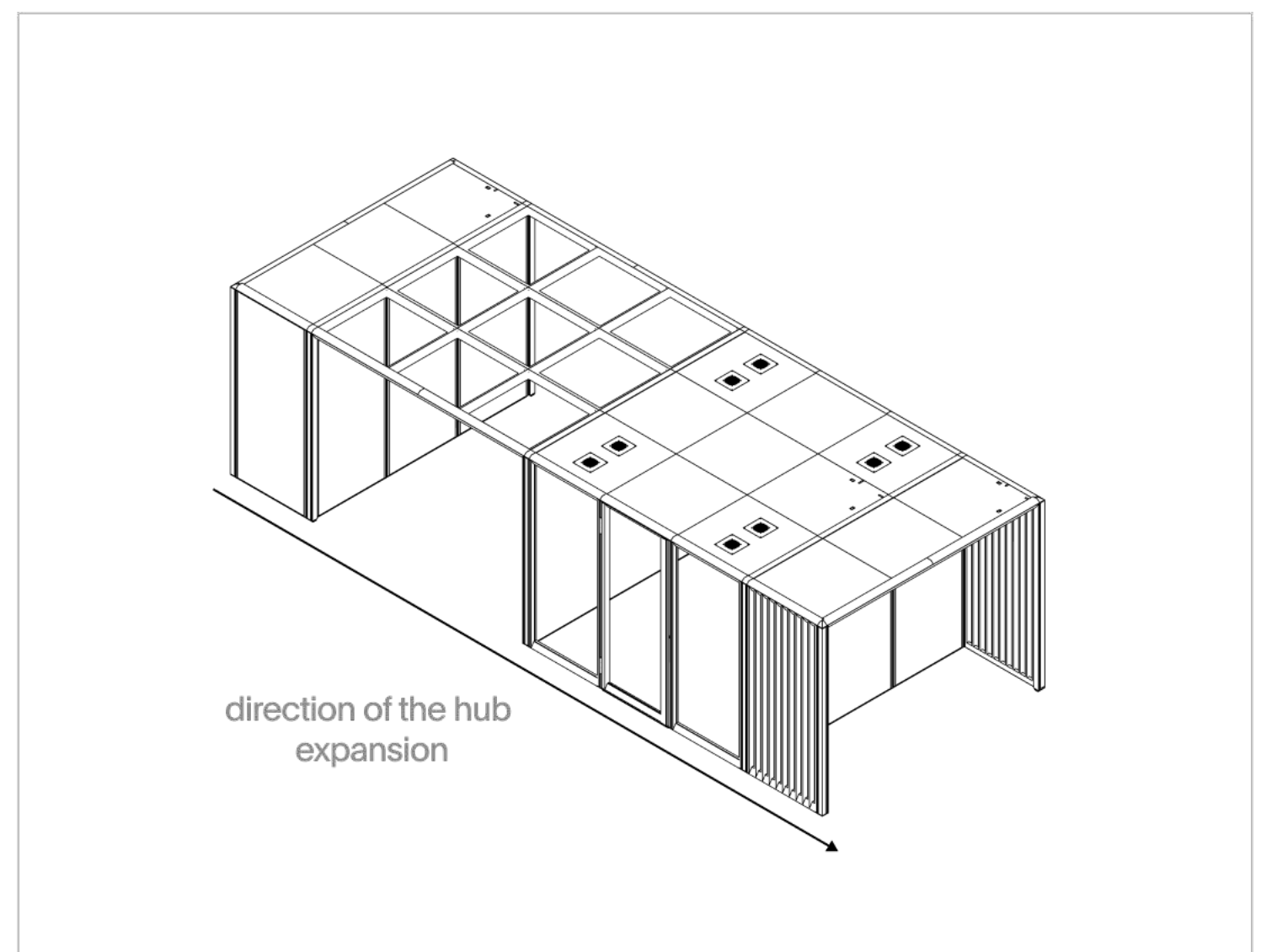
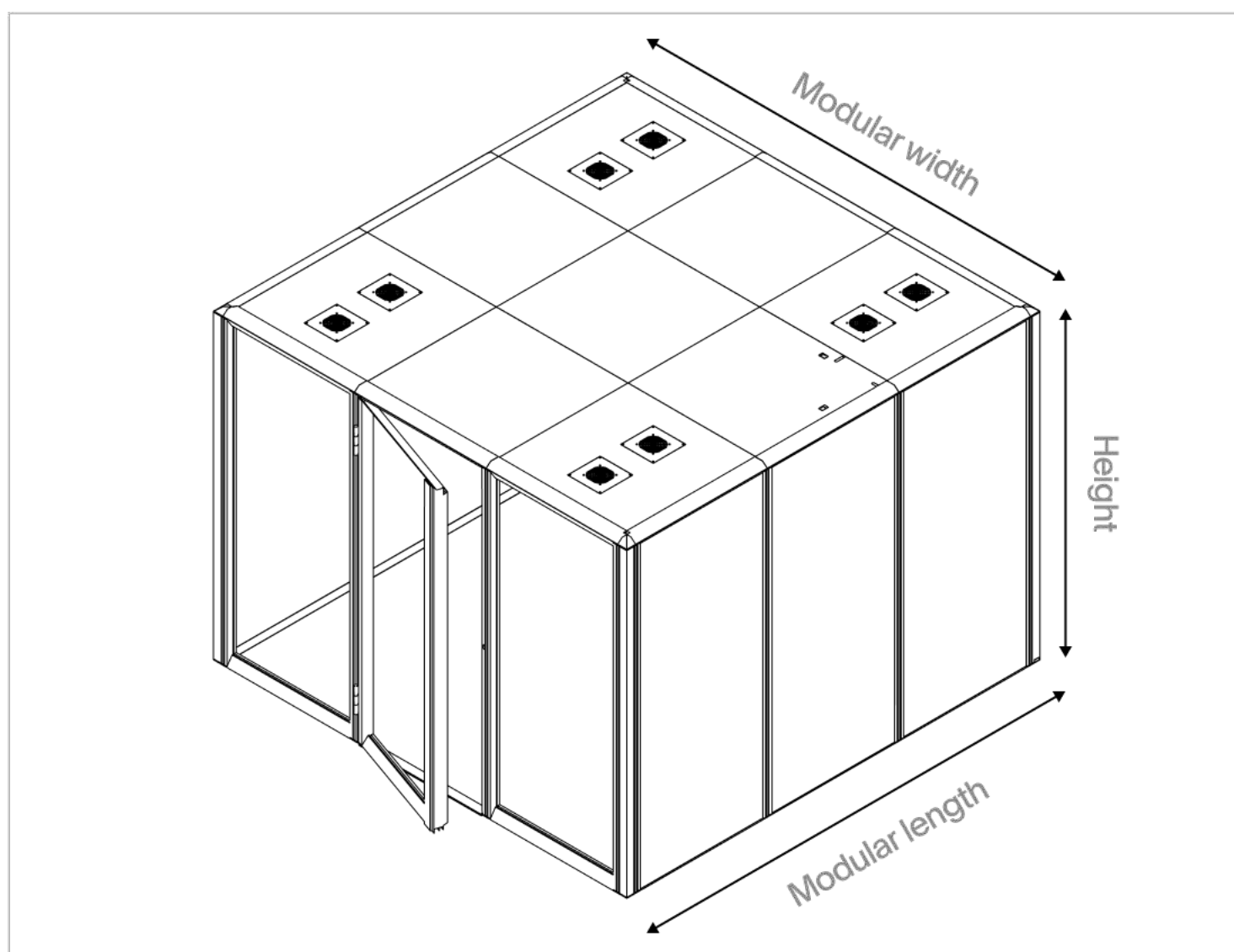


Dimensions

Modular sizing system

Modular width	Aligned parallel to the hub expansion direction
Modular length	Aligned perpendicular to the hub expansion direction
Height	Available external heights: 226 cm or 238 cm

i Example: Modular size 3x2 = Modular width of 3, Modular length of 2, Module size of 1 = 101 cm



Freestanding single rooms

Closed room (with door)	Minimum: 1.5x1 Maximum: 5x4
Open room	Minimum: 1x1 Maximum: 5x4

Hubs

Closed room	Minimum: 1x1 Maximum: 5x4
Open room	Minimum: 0.5x1 Maximum: 5x4
Max recommended hub length	20 meters

Levelling system specifications

Levelling system	Integrated feet system with expandable perimeter seal
Permissible floor unevenness*	Max 2 cm difference within the area of a single room or hub
Maximum footing pressure	70–150 kg per feet (3.15 cm ²)

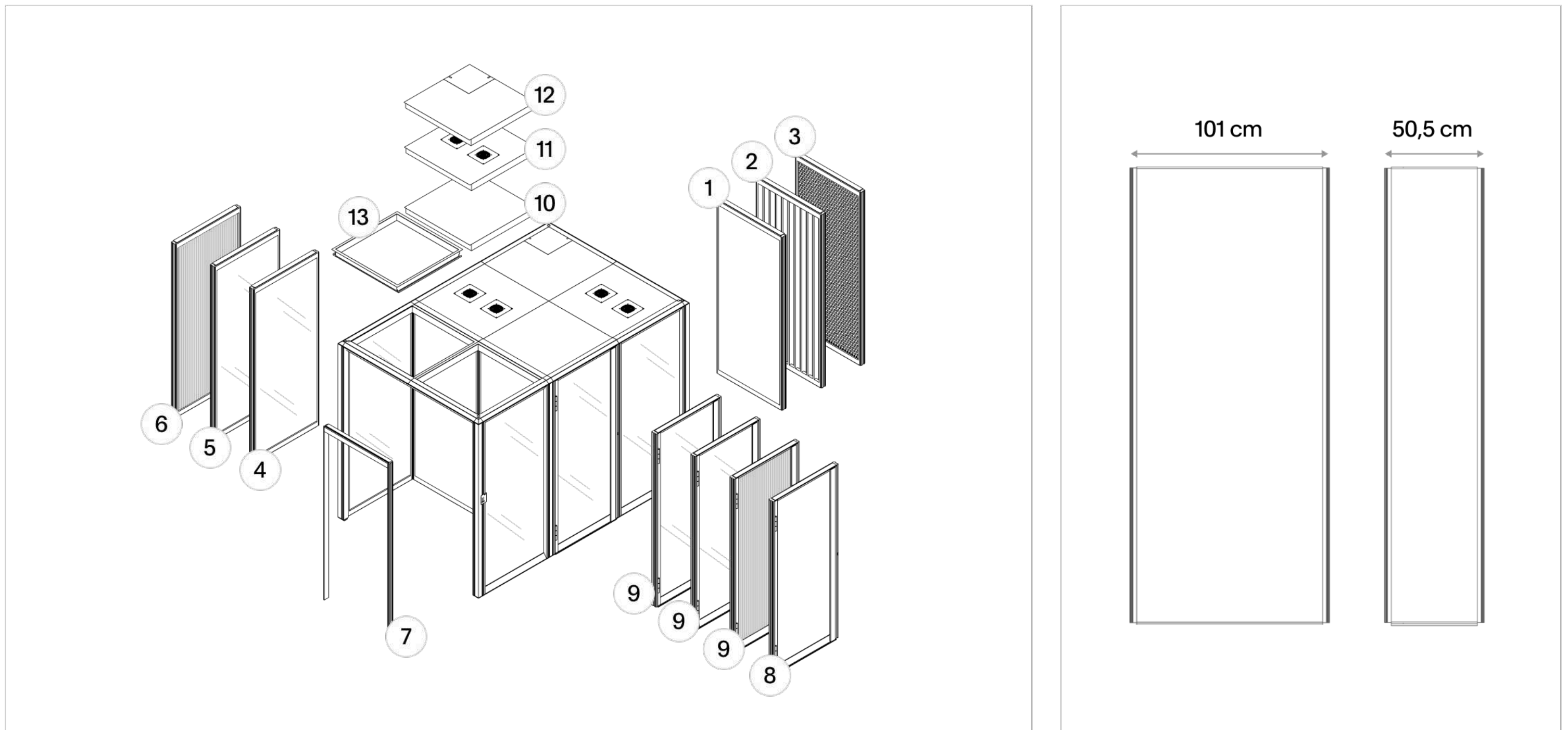
*If the floor has higher unevenness than the above, it is recommended to build independent rooms placed back-to-back instead of a connected hub configuration

System reconfiguration capabilities

On-site reconfiguration	The system allows the original layout to be rebuilt into a new one using the same or additional system elements.
Scope of changes	<ul style="list-style-type: none"> • With or without changing the modular size • Repositioning of system elements • Replacing elements with others
Modification conditions	Any change in the layout can be made only subject to compliance with the applicable rules on room configuration.

System elements

The walls are built from aluminum-framed modules connected at 90° and 180° angles using precision connectors. Each module comes in two widths — 101 cm (1 module) or 50,5 cm (0.5 module) — and can be finished with various materials.



Wall modules	Available sizes	Material
(1) Solid	101 cm / 50,5 cm	Aluminium frame, isolating material filling, external/internal finishing
(2) Slatted	101 cm / 50,5 cm	Aluminium frame and slats
(3) Perforated	101 cm / 50,5 cm	Aluminium frame, perforated steel filling
(4) ESG glass	101 cm / 50,5 cm	Aluminium frame, tempered glass 6 mm
(5) VSG glass	101 cm / 50,5 cm	Aluminium frame, laminated glass 8 mm
(6) Fluted glass	101 cm / 50,5 cm	Aluminium frame, fluted tempered glass 6 mm
(7) Open*	101 cm / 50,5 cm	Aluminium frame
(8) Solid door	101 cm	Aluminium frame, steel and aluminium sheet filling
(9) Glass door	101 cm	Aluminium frame, ESG/VSG/Fluted glass

*The minimum width of an open wall module is 1 module 101 cm. It can be expanded by 0,5 module to a maximum span of 4 modules.

Ceiling modules	Available sizes	Material
(10) Solid	101x101 cm / 50,5x50,5 cm / 101x50,5 cm	Aluminium frame, isolating material filling, external/internal finishing
(11) Ventilation	101x101 cm / 101x50,5	Aluminium frame, isolating material filling, external/internal finishing, fans
(12) Electric	101x101 cm / 101x50,5 cm / 50,5x50,5	Aluminium frame, isolating material filling, external/internal finishing, electric box
(13) Open	101x101 cm / 50,5x50,5 cm / 101x50,5 cm	Aluminium frame

Furniture and accessories	Types
Cabinets	Open, single-drawer, with two drawers, hinged door, sliding door
Shelves	Shallow, deep, deep with one or two bookends, deep with rail
Sofas	With/without armrests, with right or left armrest
Tables	With an adjustable leg (70-106 cm height), without equipment or equipped with system flap/ undertop basket/ PDU
Desks	Desks on hooks, desks with electric adjustment (with/without system flap/undertop basket/ PDU)
Accessories	Whiteboards, display rails, hooks, bokend, display stand, phone holder, magnets, TV hangers, curtain rail and curtains

 For a complete list of equipment and furniture, see System Elements catalogue.

Acoustics

Speech Level Reduction

For two variants of the wall configuration, class A results were confirmed according to ISO 23351-1:2020. The Speech Level Reduction ($D_{S,A}$) values meeting class A requirements are presented in Table 1 and for Class B requirements in Table 2.

Bolded boxes indicate the results of acoustic tests carried out for specific configurations in an accredited laboratory, in accordance with ISO 23351-1:2020. Based on these results, the expected $D_{S,A}$ for other sizes with the same configuration (beyond bolded boxes) has been extrapolated.

Table 1. Test results of the Speech Level Reduction ($D_{S,A}$) parameter for specific Mute Modular configurations with class A

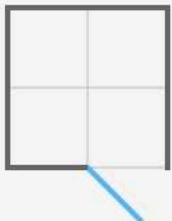
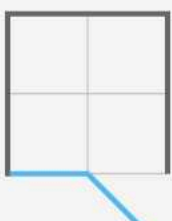
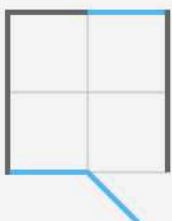
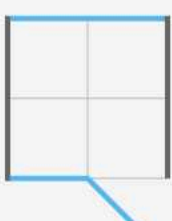
Walls configuration	Modular size	$D_{S,A}$ Test results for sizes meeting the requirements of the ISO 23351-1					$D_{S,A}$ Extrapolated ISO 23351-1 results for larger rooms				
		1,5x1	2x1	1,5x1,5	2x1,5	2x2	2,5x2	3x2	2,5x2,5	3x2,5	3x3
 <ul style="list-style-type: none"> • Glass door module: Laminated glass 8 mm • Solid modules: External steel sheet and internal fabric 		30,5 dB	30,5 dB	30,5 dB	30,5 dB	30,6 dB	30,6 dB	30,6 dB	30,6 dB	30,6 dB	
 <ul style="list-style-type: none"> • Glass door and wall modules: Laminated glass 8 mm • Solid modules: External steel sheet and internal fabric 		30,1 dB	30,1 dB	30,1 dB	30,1 dB	30,1 dB	30,1 dB	30,1 dB	30,1 dB	30,1 dB	

Table 2. Test results of the Speech Level Reduction ($D_{S,A}$) parameter for specific Mute Modular configurations with class B

Walls configuration	Modular size	$D_{S,A}$ Test results for sizes meeting the requirements of the ISO 23351-1					$D_{S,A}$ Extrapolated ISO 23351-1 results for larger rooms				
		1,5x1	2x1	1,5x1,5	2x1,5	2x2	2,5x2	3x2	2,5x2,5	3x2,5	3x3
 <ul style="list-style-type: none"> • Glass door and wall modules: Laminated glass 8 mm • Solid modules: External steel sheet and internal fabric 		29,2 dB	29,2 dB	29,2 dB	29,2 dB	29,6 dB	29,6 dB	29,6 dB	29,6 dB	29,6 dB	
 <ul style="list-style-type: none"> • Glass door and wall modules: Laminated glass 8 mm • Solid modules: External steel sheet and internal fabric 		> 28 dB	> 28 dB	> 28 dB	> 28 dB	28,7 dB	28,7 dB	28,7 dB	28,7 dB	28,7 dB	

Sound insulation of individual modules

The results of acoustic tests for individual modules were obtained in an accredited laboratory in accordance with ISO 10140-2:2021-10, in order to determine the weighted sound reduction index (R'_w) for a wide range of wall and ceiling modules of the Mute Modular system. The proportions of the component modules in the entire pod determine the overall sound insulation performance of the configuration.

The modules tested in accordance with ISO 10140-2:2021-10 and the corresponding R'_w values are presented in Table 3.

Table 3. Test results of the weighted sound reduction index R'_w (C, Ctr) for Mute Modular modules

Room element	Finishing material outside	Finishing material inside	Weighted Sound Reduction Index R_w (C, Ctr) dB
Solid wall module	<ul style="list-style-type: none"> • steel sheet or • wood-like board (Lincoln Walnut, Vincenza Oak) or • veneered board 	steel sheet on a board backing	48 (-2,-7)
		laminated board (MFC) or wood-like board	42 (-1, -5)
		soft finishing, e.g. rPET felt or fabric	41 (-2, -5)
	<ul style="list-style-type: none"> • laminated board (MFC) (Moon White, Ash Gray, Void Black) 	steel sheet on a board backing	39 (-1, -4)
		laminated board (MFC) or wood-like board	43 (-4, -9)
		soft finishing, e.g. rPET felt or fabric	38 (-2, -6)
Ceiling module	Steel sheet	perforated steel sheet or fabric	35 (-1, -5)
Glass wall module	ESG 6 mm glass		33 (-1, -2)
	VSG 44.2 SR 8 mm glass		37 (-1,-4)

Sound absorption

Configurations of closed rooms with solid walls in Mute Modular achieve reverberation time within the range of 0,1-0,5 s, which is perfect for verbal communication.

Table 4. Sound absorption of Mute Modular internal surfaces according to ISO 354

Surface type	Frequency [Hz]						α_w	Class
	125	250	500	1000	2000	4000		
Wall rPET or fabric	0,6	0,85	0,95	0,95	0,95	0,85	0,95	A
Ceiling perforated steel sheet	0,25	0,85	1	1	1	0,9	1,0	A

Framed area – frequency range that is particularly important for verbal communication.

Gentle background sound

The sound levels (L_{Aeq}) emitted to the surroundings of the Mute Modular unit do not exceed 38 dBA, and 37 dBA to the interior, at the maximum speed of the fans. The system has been equipped with soft start and soft stop function to better blend into the background.

Ventilation system

Ventilation specifications

System type	Mechanical supply and exhaust ventilation
Installation	Ceiling-mounted supply and exhaust ventilation modules
Minimum supply airflow (1x1 module)	145 m ³ /h
Nominal supply airflow (1x1 module)	365 m ³ /h
Minimum airflow (per person):	60 m ³ /h
Air changes (per hour):	≥10
Fan nominal noise level	31.5 dBA (for supply modules)
HVAC integration	Custom solutions available for connection to external HVAC systems

Table 1. Example number of ventilation ceiling modules in a single room.

Room size	Room floor area	Maximum recommended number of people	Total standard no. of ventilation ceiling modules	Standard no. of air supply modules	Standard no. of air exhaust modules
1x1,5 ÷ 1,5x2	1,5-3 m ²	1	1	0,5	0,5
2x1	2 m ²	2	1,5	1	0,5
1,5x1,5 ÷ 1,5x4 2x1,5 ÷ 2x3	2,3-6 m ²	2	2	1	1
1,5x2	3 m ²	4	3,5	1,5	1
2x2 ÷ 2x5 2,5x2,5 ÷ 2,5x5 3x3 ÷ 3x4,5	3-13,5 m ²	4	3	2	1
2x2,5	5 m ²	5	3	2	1
2x2,5 ÷ 2x5 2,5x4 ÷ 2,5x5 3x3 ÷ 3x5 3,5x3,5 ÷ 3,5x5 4x4 ÷ 4x5	5-20 m ²	6	4	3	1
3x4 ÷ 3x5 3,5x4 ÷ 3,5x5 4x4 ÷ 4x5	12-20 m ²	10	6	4	2
4x4 ÷ 4x5	16-20 m ²	12	7	5	2
4x4 ÷ 4x5	16-20 m ²	14	8	6	2

Optional sensors

The ventilation system can optionally be controlled via sensors. Sensors are built into the ventilation system and discreetly installed. Only one sensor type can be used at a time.

Sensor type	Function
CO ₂ sensor	Enables AUTO mode: continuously monitors CO ₂ levels and adjusts airflow accordingly
Temperature sensor	Enables SAFE mode: stabilize the room temperature when a threshold is exceeded - intended for use in technical rooms where no people are present.

Electrics

Each Mute Modular with an electrical installation contains an electrical module that supplies two separate installations: 230V (230V sockets and 24V DC power supply) and 24V DC (lighting, ventilation, control panel and sensors). The electrical system is designed to keep wiring hidden, routing it inside the wall module covers

Cable types are selected individually to meet national standards and regulations depending on where the Mute Modular is installed.

Power connectors for 230V AC installation are female GST18.

Power connection types

- To the side from each electrical profile
- Under the floor from each electrical profile
- To the top from the electric ceiling module
- From the corner or middle profile inward

Electrical box elements:

- RCD fuse
- MCB circuit breakers
- 24 DC power supply
- LAN switch
- microcomputer

Power distribution units

A single room can have up to 8 outlets, supplied by one electrical module.

Distribution units options

- 2x 230V AC
- 4x 230V AC
- 2x 230V AC, RJ45
- 2x 230V AC, 2x RJ45
- 2x 230V AC, RJ45, cable duct
- 2x 230V AC, 2x RJ45, cable duct
- 2x 230V AC, USB A+C 30/65W
- 2x 230V AC, RJ45, USB A+C 30/65W

Available heights for power distribution units

- 11 cm
- 55 cm
- 84 cm
- 112 cm
- 145 cm

AV and data

AV & data ports

The power distribution units can be equipped with various configurations, including AV ports such as HDMI, USB, and RJ45 sockets for internet connectivity.

LAN cables, Switch

RJ45 ports and LAN cables are provided as standard in CAT6 specification. The Mute Modular can be equipped with CAT6A components if required. When more than one RJ45 port is needed, a switch (with included PoE power supply) can be installed in the electric box, allowing connection of up to four LAN cables to the Ethernet network.

In-wall conduits

In the solid wall module, building in an in-wall conduit with a single-sided or double-sided bushing is possible. The maximum diameter of the bushing is in the range of 35-50 mm. The length of the channels, the number of in-wall conduits, and their location depends on the available installation space within the wall structure. In-wall conduits can be placed at five selectable heights, matching the available heights for power distribution units.

Reservation systems and displays

If installation of a panel or reservation system display from a third-party manufacturer is required, the mounting system and cable route can be designed individually according to customer requirements (installation and configuration to be handled by the customer).

Packaging, transport and certificates

Main materials used for packaging

- Wooden pallets
- Plywood pallets (sea, air transport – depending on the country)
- Packaging made of cardboard
- Solid cardboard
- Honeycombs
- Plastic materials – less than 1%

Max. stack height

The maximum stack height varies depending only on the mode of transportation and its specific limitations.

Max load of one core box

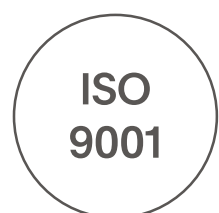
3 tons

Transport

- Mute Modular is transported using local carriers.
- Delivery and transport conditions are considered individually for each order.
- Assembly service by the Mute team is available in select markets.

Compliance and safety

Mute Modular has received several certifications for its high standards and safety, and more are planned as we undergo certification processes.



Sustainability

- ISO 14001
- FSC
- Minimized waste
- Responsible sourcing
- Control of resources





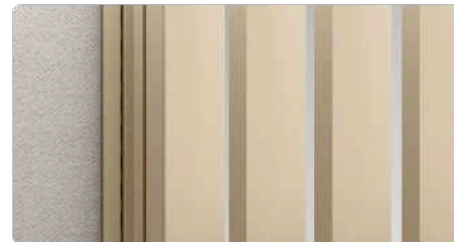
Colors and finishing

Construction colors


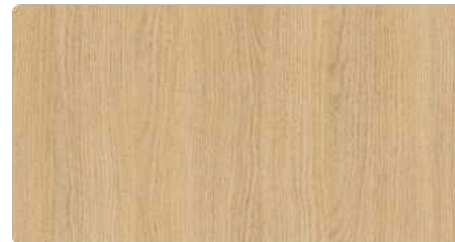
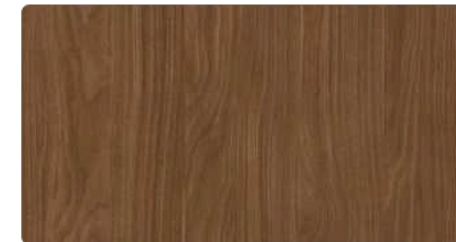
					
Cream White NCS S 0804-Y30R	Moon White Pantone Grey 403051	Pebble Gray NCS S 2502-Y	Ash Gray NCS S 2005-Y20R	Sand Beige NCS S 3010-Y30R	Cardamon Beige NCS S 4005-Y50R
					
Soil Gray NCS S 5005-Y20R	Moss Brown NCS S 6010-Y10R	Truffle Brown NCS S 7005-Y50R	Void Black NCS S 8500-N	Graphite Black NCS S 7502-B	Ink Blue NCS S 7020-R90B
					
Denim Blue NCS S 5020-R90B	Steel Blue NCS S 3010-R90B	Straw Green NCS S 3005-G80Y	Sage Green NCS S 3010-G20Y	Reed Green NCS S 5010-G30Y	Stone Green NCS S 6010-B50G
					
Spruce Green NCS S 8010-B90G	Coal Brown NCS S 8005-Y80R	Wine Red NCS S 7020-R	Rust Red NCS S 5020-Y90R	Clay Red NCS S 4030-Y70R	Apricot Red NCS S 2020-Y70R

Finishings overview

Powder coated elements (Wall modules)

		
Powder coated steel sheet 24 colors	Perforated powder-coated steel sheet 24 colors	Powder coated aluminum slats 24 colors

Decorative board (Solid wall modules and furniture)

		
Laminated board (MFC) 22 colors	Wood-like board: Egger Oak Vicenza H3157 ST 12	Wood-like board: Egger Walnut Lincoln H1714 ST 19

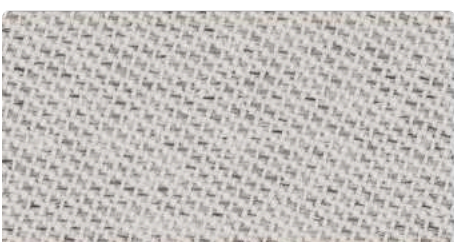

Veneers (Solid wall modules and chosen furniture)

	
Natural Oak	Bleached Ash

Glass (Glass door and wall modules)

		
Tempered glass	Laminated glass	Fluted Glass

Fabrics

	
Gabriel Chili 21 colors	Kvadrat Air 4 203

Felt (Solid wall modules)


Felt (rPET) Light gray

Laminated board color selection for furniture



* Can also be used in Solid wall modules.

Fabrics color selection (Gabriel Chili)



As part of product customization, you may select fabrics beyond the standard Mute Modular range (21 Chili colors). The options listed next are technically approved for use in walls, ceilings, and sofas. Please note that lead times may be extended by 2 to 8 weeks. Pricing is available upon request.

Kvadrat
Remix 3, Autumn, Guest, Re-Wool 2
Gabriel
Chili (other colors), Cura, Tonal, Grain, Select, Umber, Mica, Medley, Cyber
Camira
Era, Main Line Flax, X2, Quest, Penta

Key warranty and maintenance information

1. Warranty coverage is provided if the product is operated in accordance with the Mute Modular Operation Manual. Lack of knowledge of product functionality, technical parameters and features, including, but not limited to knowledge of controlling utilities supply, does not constitute grounds for complaint.
2. When Mute Modular system needs to be rebuilt within the following scope: rearrangement of wall modules, ceiling modules, ceiling profiles, corner profiles, modification of ventilation system and/or electrical system, please contact Mute Customer Service to determine the feasibility of rebuilding the existing layout. All attempts to repair, alter or modify the product without written authorization from Mute shall render the guarantee null and void.
3. We guarantee the availability of spare parts and the possibility of repair during the warranty period of the Mute Modular product, that is, 5 years, and an additional 5 years after the warranty period ends. We reserve the right to introduce replacement solutions and components, with the guarantee that they will be no worse than the original solutions and components in technical and functional terms.
4. Installation of the product should be carried out by Mute service personnel or by a designated and trained service partner. In order for the installation service to be performed, the Installation Conditions form must first be completed and sent to Mute. In order to ensure the correct operation of the product during the guarantee period, the customer is required to perform regular service inspections every 6 months according to Service Protocol.
5. Product should not be placed in the immediate vicinity of heat sources, the minimum distance from heat sources should be 50 cm and should not be exposed to direct sunlight, the product is intended for indoor use only.
6. The minimum distance between the ceiling of Mute Modular product and the ceiling of the room is 20 cm. This distance allows for unobstructed installation and maintenance, as well as ensures optimal fan performance.
7. The floor on which the Mute Modular is installed must constitute a flat surface, uniform in terms of material, ensuring the load-bearing capacity necessary for the weight of the Mute Modular and for ensuring its structure's stability.
8. Slope tolerance, i.e., the difference between the lowest and highest points of irregularities in the floor or flooring on which the Mute Modular is installed, must not exceed 10 mm / 0.39 in. for every 2 m / 6.56 ft of length and 20 mm / 0.79 in. over the entire length of the Mute Modular system. Local irregularities (defects, floor or flooring surface joints) must not exceed 20 mm / 0.79 in. In case of deviations exceeding the indicated values, it is recommended to separate rooms (not connecting them into hubs at the project stage) or to ensure the leveling of the floor. Failure to meet the described conditions may prevent proper installation and use of the product, as well as decrease its technical and functional parameters and any related complaints will not be accepted.
9. The acoustic and ventilation parameters of the rooms depend on the configuration of the room, the selected finishes including the selection and arrangement of wall, ceiling and ventilation (supply and exhaust) modules. Achieving the properties assumed by the customer requires their consideration at the project stage.

The manufacturer guarantees the compliance of the technical parameters of the system components or individual configurations with the declared values under test conditions, but is not responsible for the end result in case of improper selection of components or lack of consideration of design requirements.
10. Performance of the Mute Modular ventilation system is influenced by the conditions inside the installation room, such as air circulation and temperature.
11. The product is supplied without visual markings on the glass surfaces to prevent accidental collision with the glazing. It is the responsibility of the Customer to apply the appropriate markings, in accordance with the applicable laws in the country of use of the product. The manufacturer shall not be liable for any damage resulting from the absence of markings or their non-compliance with local regulations.
12. All Mute Modular elements are manufactured according to strict manufacturing and assembly tolerances within 2-5 mm / 0.08-0.2 in., which can result in component fitting differences. If the differences do not diminish the performance and technical parameters, they do not constitute grounds for complaint. Aesthetic differences in the fitting of product elements resulting from assembly tolerances are allowed.
13. Do not write or paint on the surface of the product, whether on the door or other parts of the product. Surfaces with the exception of boards are not washable. Whiteboards should be serviced in accordance with the manufacturer's recommendations.
14. In the event of soiling and/or when cleaning Mute Modular components is necessary, follow the recommendations outlined in the Cleaning Guide.

Information

This is selected information extracted from the *Terms and conditions of the warranty* and *Operation manual* documents. If you are interested in the full versions of these documents, please get in touch with the Customer Care Department.

Inspire. Create. Deliver.