



**COMPREHENSIVE SERVICE
OF CLEANROOM AREAS**



CleanRoom

 **RENEEX GROUP**

A FEW WORDS **ABOUT US**

The Cleanroom brand belongs to RENEX Group, specializing in the provision of comprehensive services and equipment necessary to create and properly operate cleanrooms.

Many years of experience and technological background in all areas of the Group's operations allow us to provide state-of-the-art solutions based on expertise in a wide range of fields.

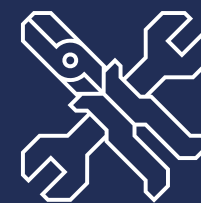
We are a Polish manufacturer with professional production and R&D facilities. Under our own brand REECO, we supply ESD and Cleanroom clothing, specialized furniture, pass boxes and Cleanboxes in standard configurations and according to individual customer needs.

For more information, visit our website:

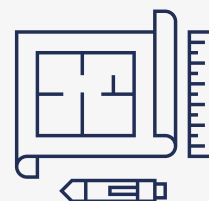
RENEX.PL



EQUIPMENT



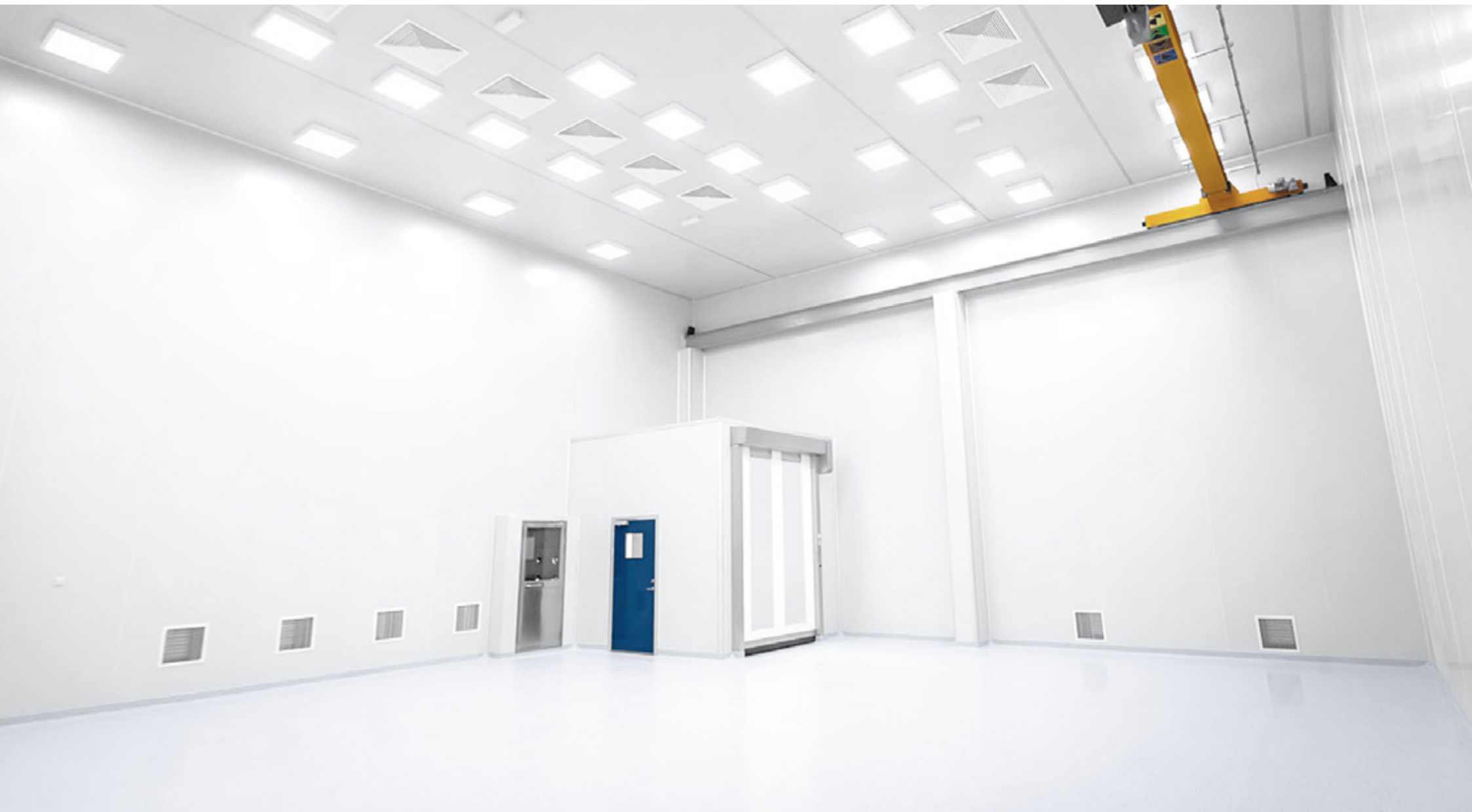
**MEASUREMENT AND
CONTROL**



DESIGN



INSTALLATION





CLEAN AREA **MAINTENANCE SERVICES**



CLEAN AREA MAINTENANCE SERVICES

AUDITS AND MEASUREMENTS

Audits and measurements of air cleanliness levels in all ISO classes.

CLEANING

Cleaning of the premises.
Up to ISO Class 4 and lower classes.

CONSERVATION

Conservation work to maintain expected environmental parameters.

EQUIPMENT MAINTENANCE

Service of equipment designed for cleanroom areas

Cleanroom areas require the implementation and maintenance of continuous monitoring procedures and the continuous maintenance of cleanliness.

Deviations from these procedures lead to an increase in the contaminants present in the room – such as the amount of airborne pollen, and consequently a change in the cleanliness class of the room.

Failure to meet the declared cleanliness classes can, as practice shows, often be the basis for refund claims by contractors.

The solution to this problem is to entrust the service of clean zones to a specialized external company.



AUDITS AND MEASUREMENTS

All activities are carried out by a specialized team.

As a result, during the process, there is no risk of errors associated with employee routine.

Often the company's internal employees are prone to gradually deviating from procedures and neglecting them.



CLEANING

All measurements are made by an independent entity, which makes the results obtained reliable.

There is no danger of biased presentation of the situation by the company's internal employees.



CONSERVATION

Each maintenance service is completed with a full report indicating the zone's existing condition and a list of maintenance activities performed.

Complete documentation throughout the clean zone's operations prepares the room for inspection audits and audits by external entities.

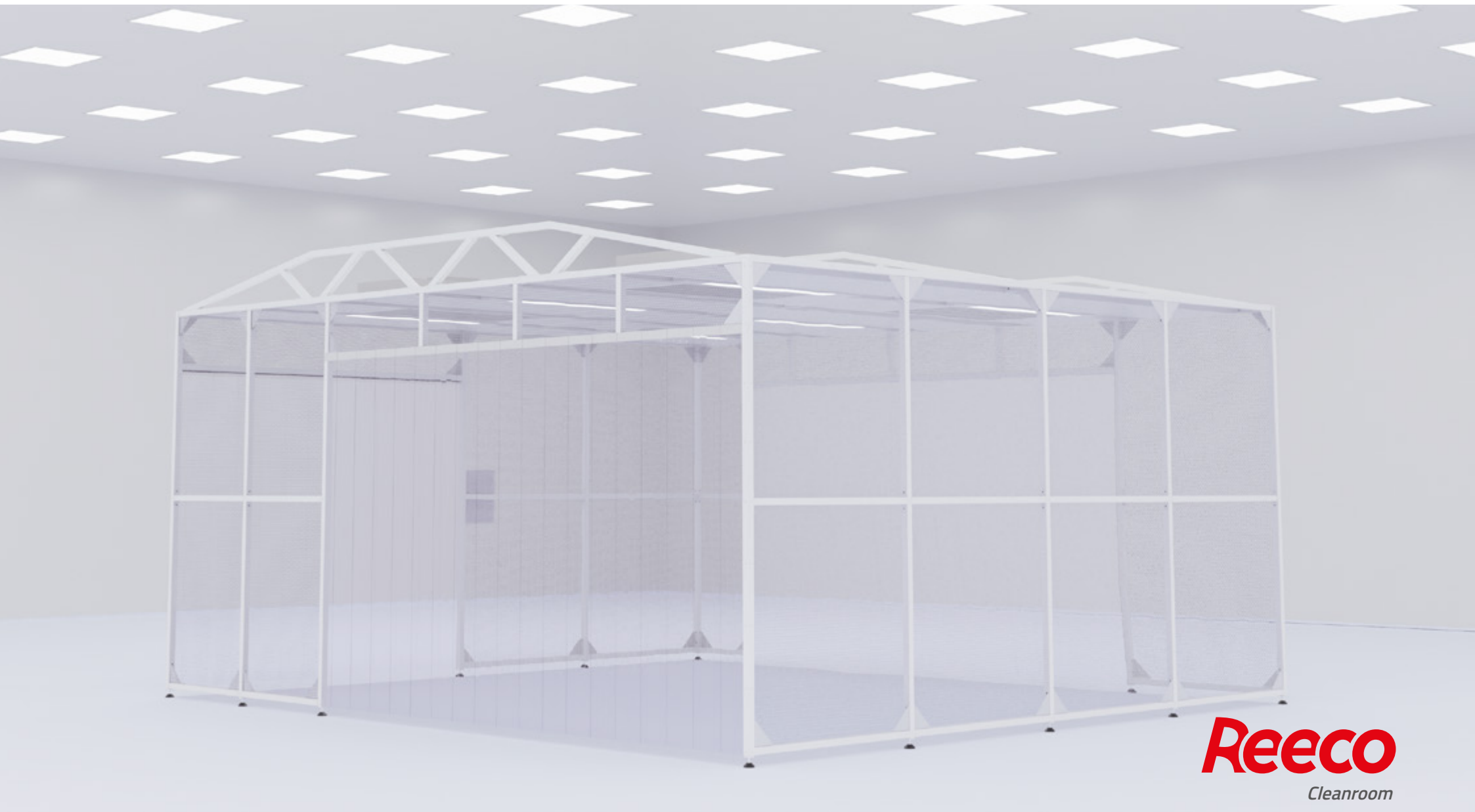


EQUIPMENT MAINTENANCE

There is no need to train employees in the service of clean zones, to supervise the enforcement of procedures, to purchase specialized measuring equipment and cleaning products

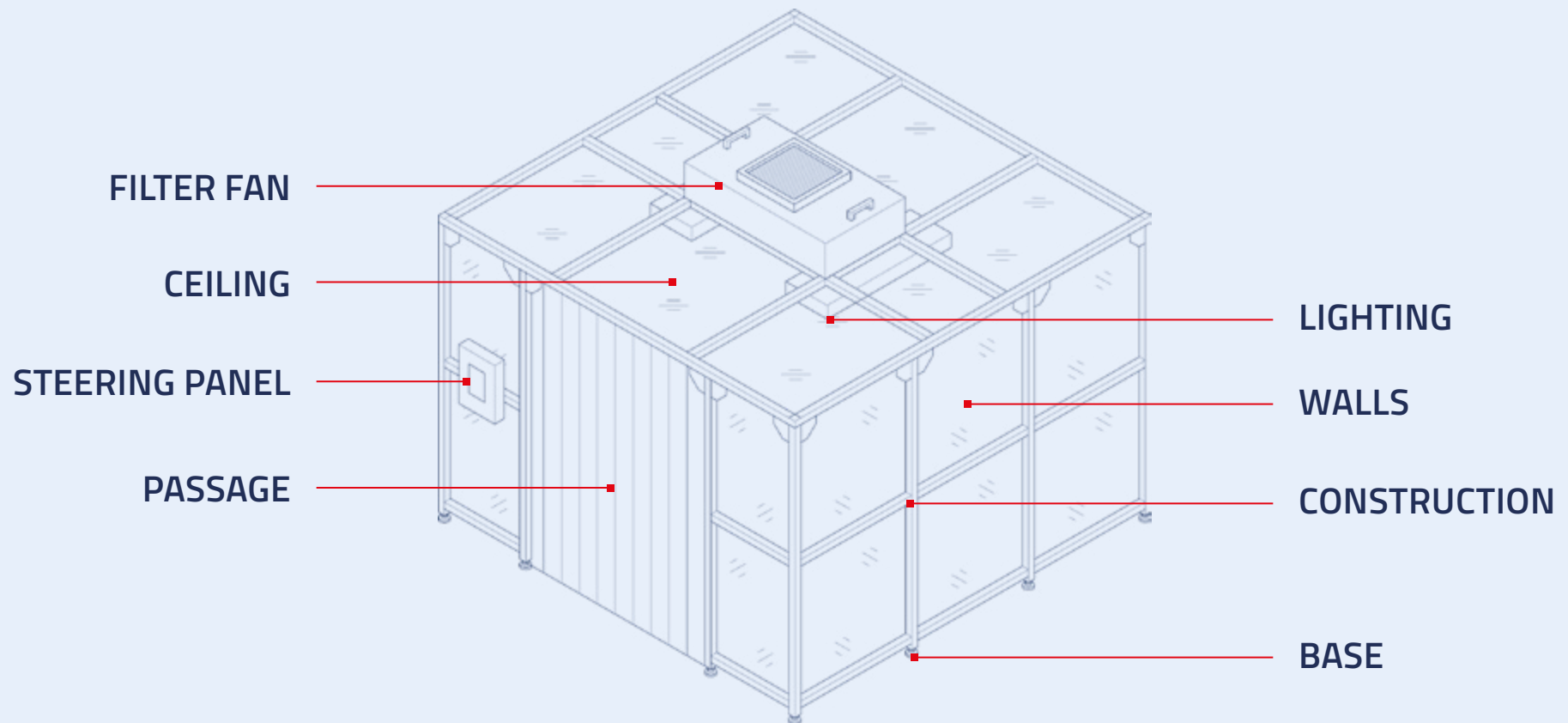
CLEANBOX – MOBILE CLEAN ZONE

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CLEANBOX | CONSTRUCTION DIAGRAM

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CLEANBOX | WALLS AND CEILING

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We use only proven solutions with the highest quality materials.

Wall options:

- antistatic film with a thickness of 0.3 mm
- net with sputtered carbon lines
- stripes of antistatic slats

Available ceiling:

- steel panels painted with antistatic powder paint



ACRYLIC GLASS



**ANTISTATIC
PCV FOIL**



**ANTISTATIC
PCV SLAT**

CLEANBOX | **PASSAGE**

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Cleanroom

**The crossing must allow
free movement of people
and goods.**

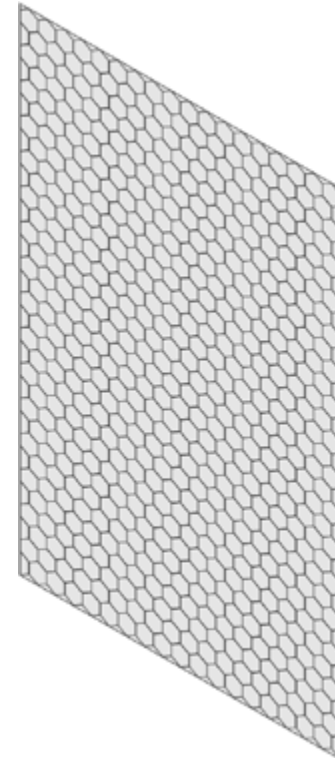
We adjust the width, height and design of the passage individually to each process and customer requirements.

Optional choices include:

- PVC curtain
- Antistatic PVC curtain
- Door



ANTISTATIC PCV SLAT



ANTISTATIC PCV CURTAIN

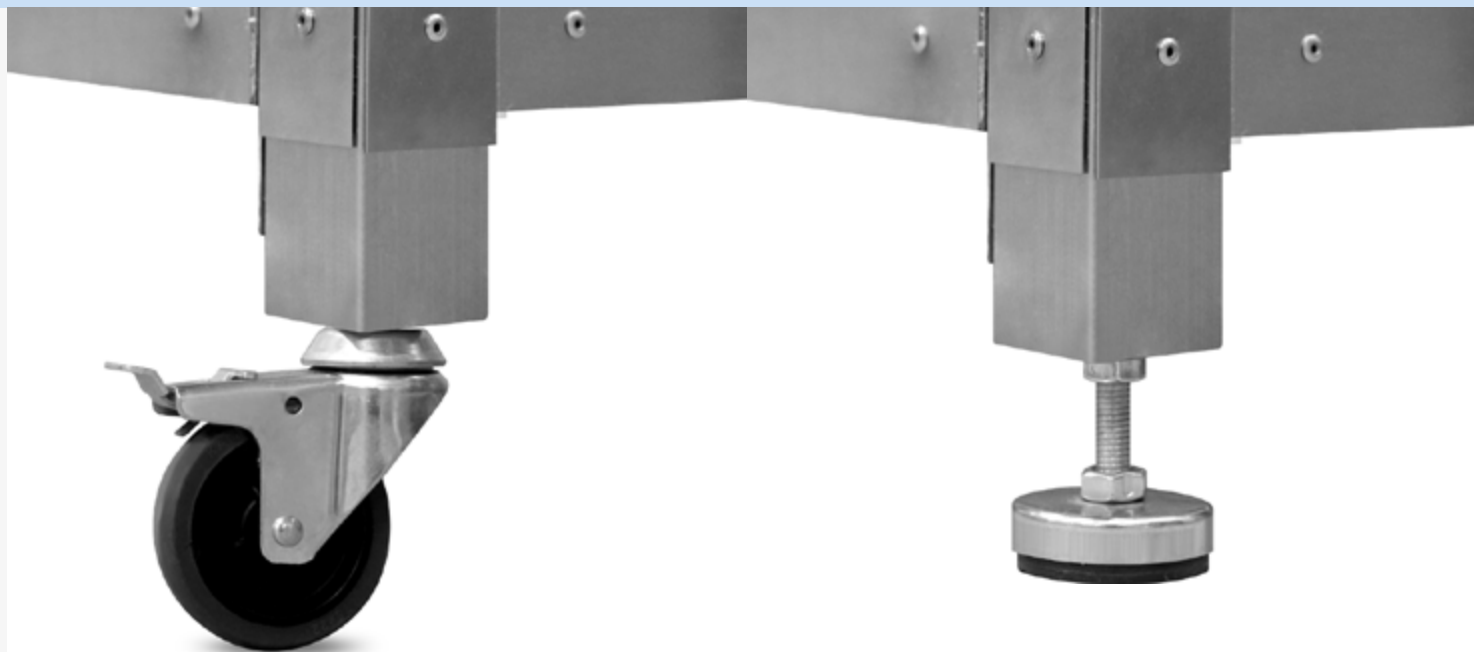
CLEANBOX | **BASE**

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Before installing a mobile cleanroom, consider the type of base.

Options to choose from:

- ESD footers made of technopolymer with threaded galvanized stem
- wheels with aluminum hub and tread of ESD polyurethane, swiveling with brake



WHEELS

Make it easy to store or move to another facility without disassembling the structure

STABLE BASES

Recommended for larger structures

CLEANBOX | LIGHTING

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CleanBox is equipped with technical lighting for rooms with a high degree of sterility depending on the classification of the room.

We will provide customized lighting, both implemented in different types of cleanroom type sterile buildings and in fixtures with increased fire resistance (REI 120, REI 180) PVC curtain



CLEANBOX | FAN FILTER UNITS

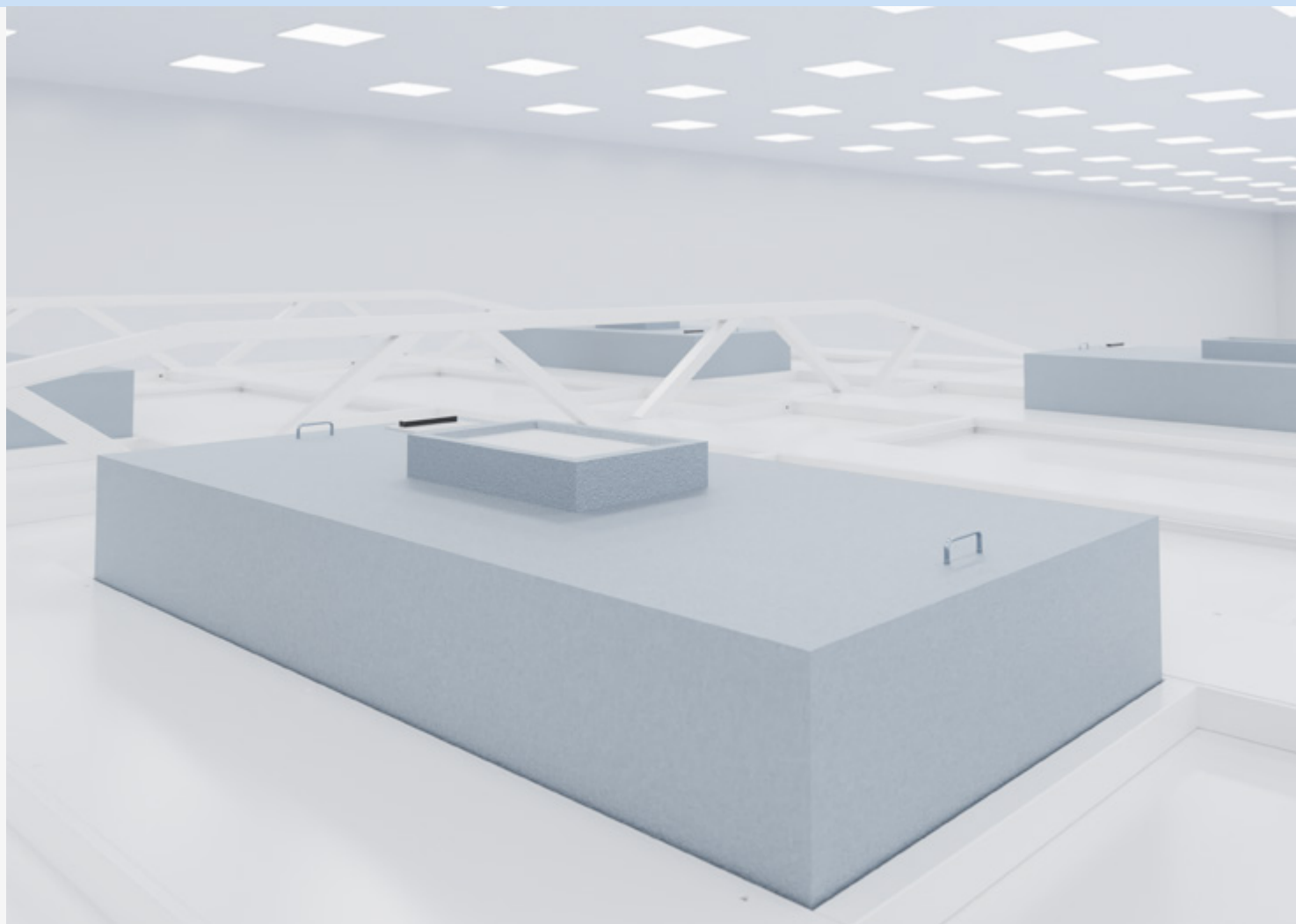
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The foundation for the proper functioning of CleanBox rooms are the filter fans.

They are equipped with a set of filters whose task is to purify the air to the required class of purity.

Advantages:

- Adjustable airflow speed, controlled remotely or manually
- Low noise emissions
- Reduced vibration level

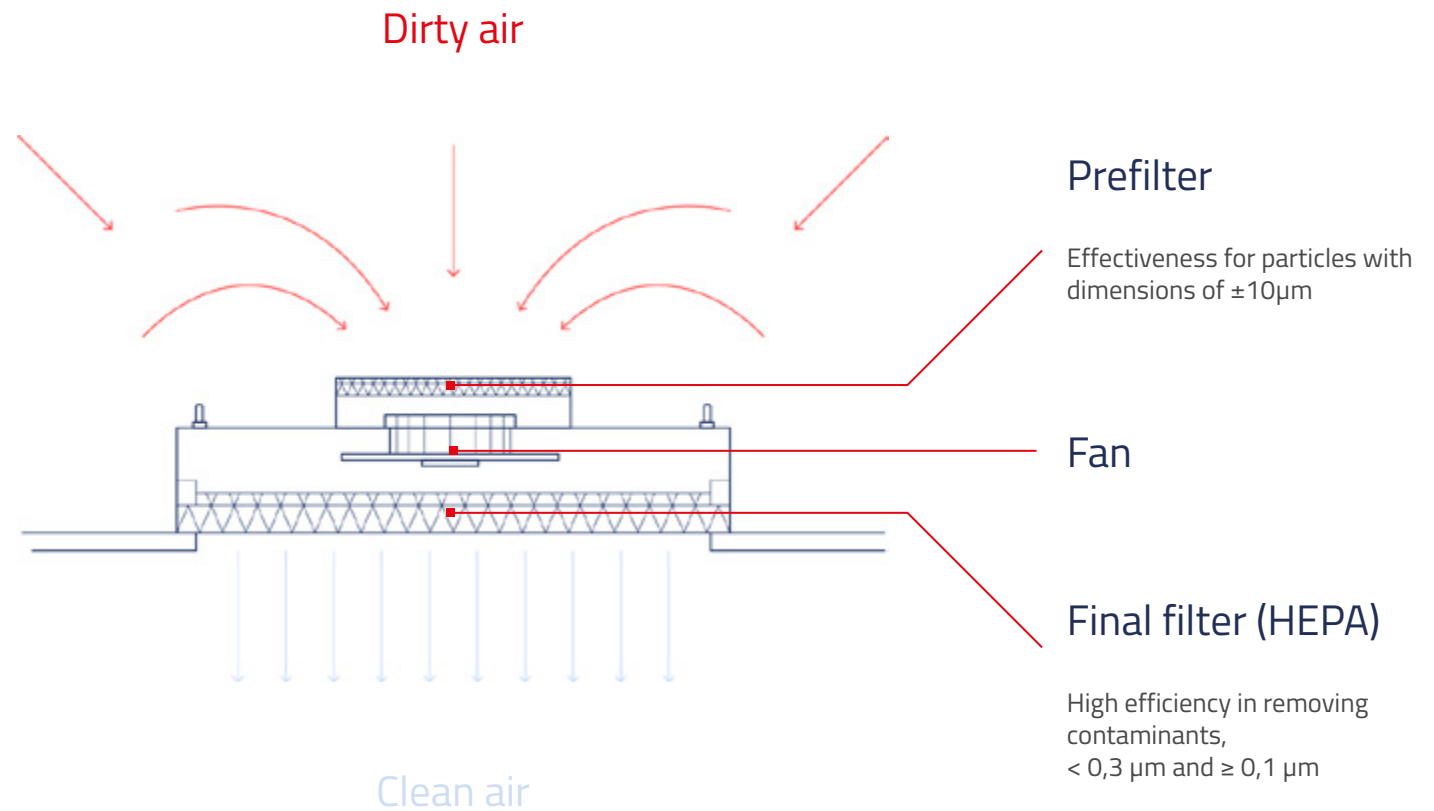


CLEANBOX | FILTER FAN

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Filter unit:

- HEPA filter fan H13/14
- cold rolled steel construction with galvanized coating
- blowing speed 0,35-0,55 m/s
- fan capacity 800-1200m³/h
- noise level <63 dB
- single or group control
- weight 27-40 kg
- power supply 230 V 50/60 HZ



CLEANBOX | FILTROWENTYLATORY

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Class	Total filtration efficiency	Local efficacy	Using
HEPA H13	99,95%	99,75%	<ul style="list-style-type: none"> Pharmaceutical industry Air purifiers Vacuum cleaners Air conditioners
HEPA H14	99,995%	99,975%	<ul style="list-style-type: none"> Hospitals with higher standards Air purifiers Vacuum cleaners Air conditioners
ULPA U15	99,9995%	99,9975%	<p>Manufactured for places that must meet very strict air quality requirements:</p> <ul style="list-style-type: none"> Nuclear industry Pharmaceutical industry Pyrotechnic industry Energy industry Food industry
ULPA U16	99,99995%	99,99975%	
ULPA U17	99,999995%	99,9999%	

CLEANBOX | ADVANTAGES



MOBILITY

Thanks to its light weight and specialized design, the Cleanbox can be easily moved to another location. This makes it possible to dynamically adapt the production space to the required conditions.

LIGHT CONSTRUCTION

Specially designed construction, means that any modifications or changes in the position of the Cleanbox are not a problem.

MODULARITY

The modular design makes it very easy to expand the Cleanbox in almost any way you want. This is a huge advantage over a traditional Clean Room, the expansion of which usually involves the construction of another room.

LACK OF COMPLEX PROCEDURES AND CONSTRUCTION PROJECTS

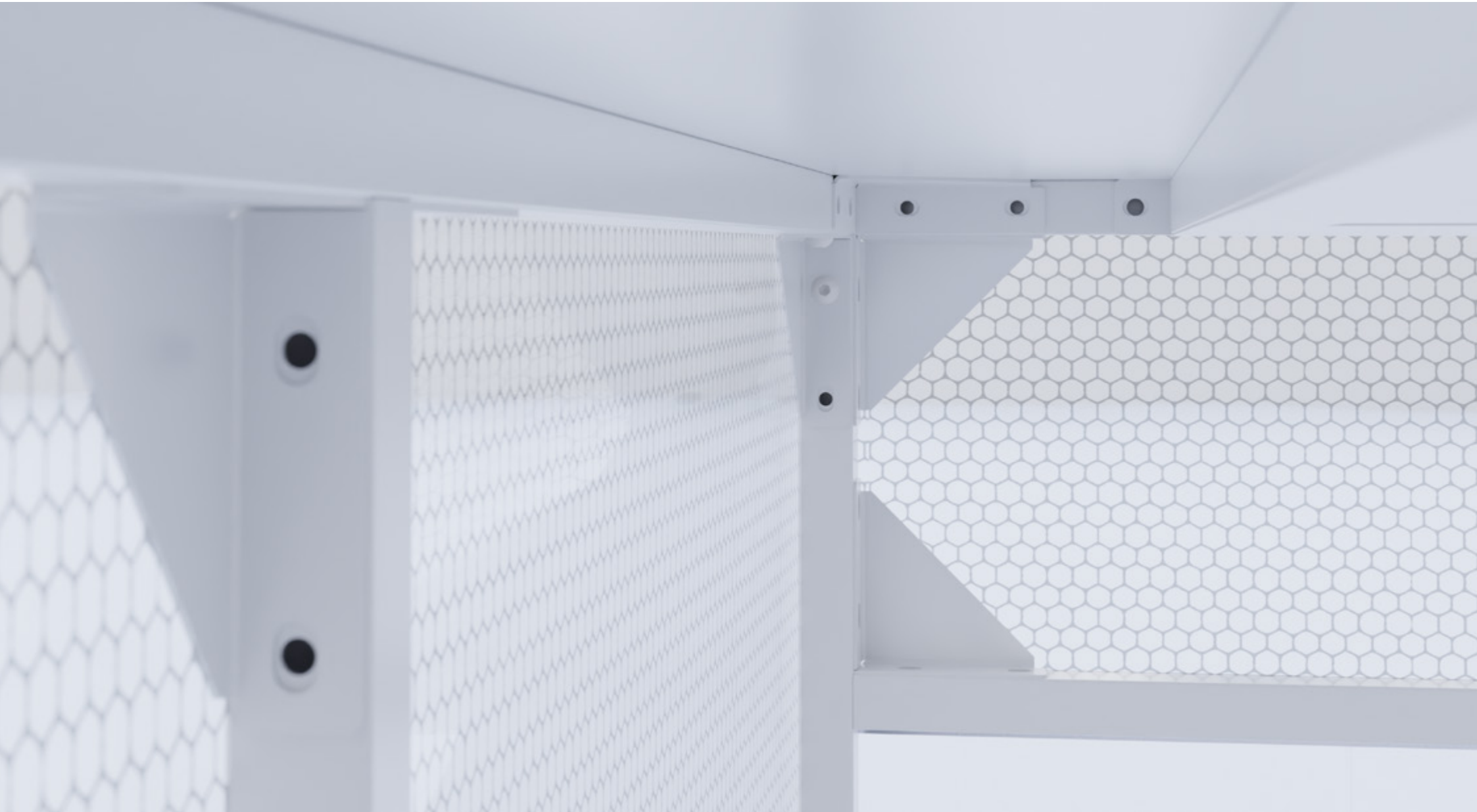
Cleanbox installation is incomparably faster and easier than the construction of a standard clean room. There is no need for complex and time-consuming construction projects.

LESS TIME-CONSUMING PROCESS

From design to construction and service, installing a mobile clean room is incomparably faster than building a conventional clean room.

LOWER INVESTMENT AND MAINTENANCE COSTS

As with time, thanks to its features, the cost of installing and servicing the Cleanbox is orders of magnitude lower than that of standard clean zones.



FURNISHINGS FOR **CLEAN ZONES**



FURNISHINGS FOR **CLEAN ZONES**

We offer a wide range of high-quality products dedicated to all ISO cleanliness classes.

We will provide equipment for industries such as:

MEDICAL

PHARMACEUTICAL

BIOTECH

ELECTRICAL

AVIATION

SPACE

FOOD

AUTOMOTIVE

PROFESSIONAL LABORATORY FURNITURE

Reeco
Cleanroom

Equipping a laboratory with the right furniture makes a measurable difference in terms of workflow, safety, and operator productivity and comfort.

Laboratory benches, chairs, stools, tables, work surfaces and storage cabinets are used in all types of facilities, including medical, chemical and life science laboratories.

Reeco brand cabinets

While capacity and space are important factors when choosing storage cabinets, safety should be a priority.

Chemical storage cabinets can be ductless, connected to an existing fumigation system or have a built-in filter system.

These are exactly the functions that all REECO cabinets perform.



ANTISTATIC PROTECTION



The design of the REECO furniture provides complete protection against electrostatic discharges.

The structure of REECO furniture is covered with antistatic coatings.

The tops of the furniture are made of conductive plates, covered with laminate ESD ensuring the outflow of electrostatic charges from the surface of the tabletop to grounding.

All our products meet requirements contained in the standards PN-EN-61340-5-1:2009



SPECIALIZED ESD FURNITURE

Reeco

Since the establishment of the RENEX Group, the most important attribute that has guided us has been the high quality of the products. The culmination of these efforts is REECO anti-static industrial furniture

Our product range includes anti-static industrial tables, anti-static chairs, workplace lighting, storage systems, transport systems, cabinets, carts and RACK hanging cabinets.

All REECO anti-static industrial furniture is characterized by anti-electrostatic properties (ESD safe). A huge and unique advantage of REECO industrial furniture is its modularity - it allows you to customize your workstation to suit every need. Whether you need furniture for an electronics technician, for a laboratory, for research and development centers, government institutions, scientific institutions, or ordinary production tables - REECO industrial furniture will perfectly fulfill its function.

We also offer specialty furniture such as anti-vibration or anti-bacterial tables. If you are looking for workshop furniture, production tables or simply ergonomic and durable industrial equipment.

REECO antistatic workshop furniture is made for you!





ESD AND CLEANROOM CLOTHING

Reeco

Comfort of use and safety at work.

We offer the highest quality antistatic clothing that perfectly protects against electrostatic discharges. The manufacturer of all offered antistatic clothing is the Polish brand REECO. We also allow you to make any embroidery on the ordered ESD clothing.

Each product is available in several color and size variants - so that each individual can tailor the garment to his or her individual needs. Thanks to our comprehensive offer of anti-static protection, you can buy all the necessary ESD protection in one place. When ordering ESD clothing from REECO, you are guaranteed extremely high quality at an affordable price.

- Variety of materials
- Wide range of colors
- Possibility of personalization (embroidery)

Clothing meets the requirements of standards:

- PN-EN 1149-5
- PN-EN ISO 13688
- PN-EN 61340-5-1





PASS BOXES

Cargo airlocks, also known as pass boxes, allow the transfer of parts and equipment into and out of the clean room.

Pass boxes are small cargo airlocks placed in partition walls between rooms in pharmaceutical plants, laboratories and hospitals. They play a particularly important function when the rooms they connect have different classes of cleanliness or there is a pressure difference between them.

Pass boxes allow quick and safe transfer of samples, packaging materials and instruments between rooms, reducing time and minimizing the possibility of cross-contamination.

Because of their small size, they limit the movement of particles and have very little impact of pressure differences between rooms.

These specialized entry systems reduce the need to enter clean rooms, and with less traffic in the clean room, contamination is significantly reduced.



PASS BOXES

Advantages of using pass boxes:

- minimizing the risk of contamination during the production or research process
- maintaining the desired ISO classification in a given zone
- positive impact on the quality and integrity of products and processes
- matching the window model to a given type of risk in relation to materials and products (passive, active-HEPA, biological-UV)
- the possibility - the option to plug into the existing filtration system at the facility

Design

- external casing - powder-coated steel with antistatic paint or 304 stainless steel
- internal construction - 304 stainless steel

Doors

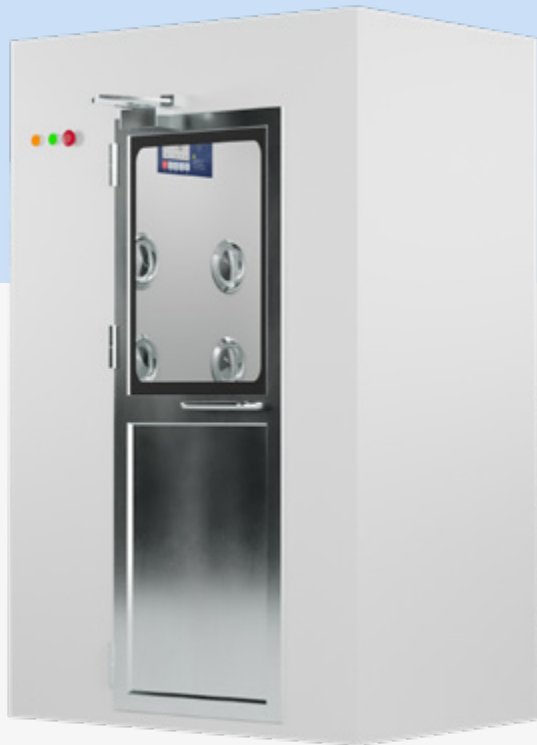
- lock: cross lock- electromagnetic
- stainless steel concealed hinges
- glazing: insulated safety glass
- stainless steel handle
- power supply 230V 50/60 Hz

Options

- possibility of different configurations and dimensions depending on room design and customer requirements



AIR SHOWERS



ACTIVE PASS BOXES



CLEAN BENCHES



CLEANROOM CLOTHING

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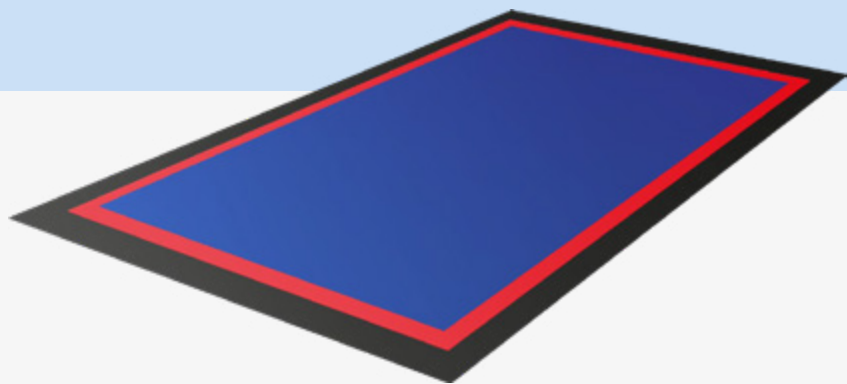
DOORS AND **GATES**



WALL **PANELS**



DECONTAMINATION **MATS**



FILTRATION **SYSTEMS**



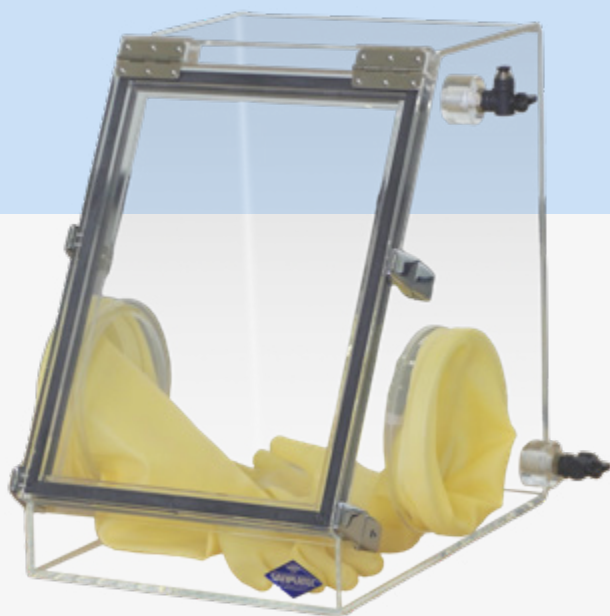
LABORATORY **FURNITURE**



CLEANING **SUPPLIES**



GLOVE BOXES



VACUUM DESICCATORS



PASS BOXES

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CLEANROOM ACCESSORIES





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