CLEANROOM SYSTEMS



cleanroom systems

SECANORM

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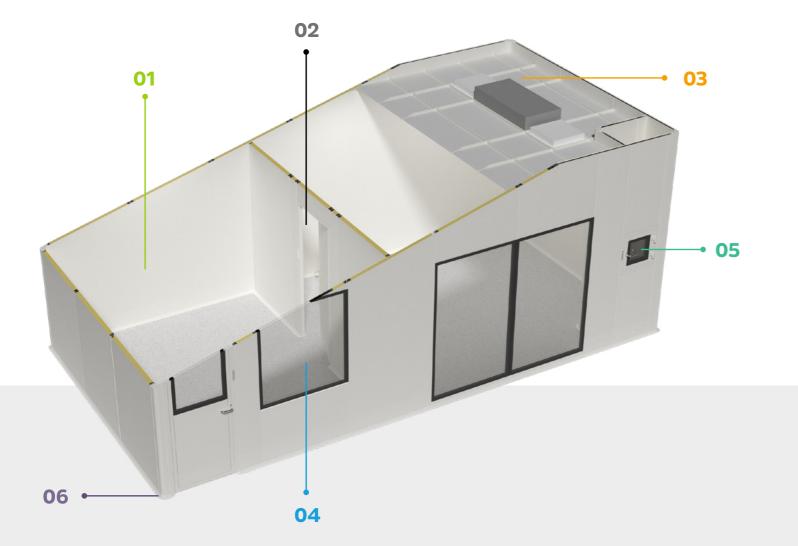
Clean Room Systems

A clean room is one or more working environment(s) established for research and production purposes, free from airborne particulate concentration and other particles, where business-specific pollutants are kept under control and humidity controls are provided. In order to ensure the desired level of cleanliness, the ventilation system, the equipment used and the entrances and exits of the users of the environment must be controlled. Additionally, the employees of the clean room use special clothes.

There are different types of clean rooms which need different filtration and air conditioning solutions for their intended use. Appropriate design and project planning is carried out in line with the sphere of activity, cleaning class and usage requirements of the room.

AREAS OF UTILIZATION

- Pharmaceutical Industry
- Biotechnology
- Medical Production
- Chemical Industry
- Microelectronics
- Aviation
- Defense Industry
- Medical Device Production
- Food Industry
- Cosmetics
- Automotive



Clean Room Constructional Components

Clean room projects are designed by our and all constructional components work expert team according to user requests and in perfect harmony with each other. In this standards.

In the post-design stages; architectural superior sealing ability. application, mechanical installation, electrical installation, HVAC, automation, Clean room equipment is designed to instrumentation and all similar work items be easy to assemble / disassemble when can be applied on a turnkey basis.

All of our clean room constructional fire resistance is provided. components are specially designed by us

way, the risk of contamination due to the structure is completely eliminated with the

necessary. Thanks to the composite structure of the constructional components, higher

Wall Panel 01

Glass Panel 03

Pass box

05

structures with UV lamp and

Door

Our door systems which are prepared in accordance with clean room standards have doors are manufactured from PVDF coated galvanized steel with or without glass.

02

Ceiling Panel 04

aluminum profile to support ceiling panels, lighting and filtering equipment units.

Accessories

These are finishing elements designed by us to be in building elements.



Clean Room Wall Panel

Panels with PVDF coating, galvanized metal surface and aluminum carcass structure are manufactured as standard. Alternatively, combinations with different surface materials can be created according to application details and user requests. Our clean room wall panels and mounting equipment compatible with the panels provide a system which is free of indentations, leak-proof, easy to assemble and reusable after disassembly.

- Main metal sheet: PVDF coated galvanized steel
- Sheet thickness: 0.8 MM
- Standard panel size: 1200x3050 MM (Contact for different panel sizes)
- Standard Panel thickness: 50 MM ±1 MM
- Inner frame material: Aluminum
- Aluminum profile and 4 mm PVC gasket as wall fitting
- After assembly, panel gaps are filled with antibacterial silicone
- Fireproof panel feature: B-S1-D0 (EN 13501)
- Other certifications: ISO 9001:2015 ; CE



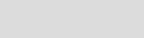
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Fireproof PU Filled Panel



▷ | | < EXTERIOR METAL SHEETS

40 ± 2 kg/m³ polyurethane



Sheet thickness: 0,8 mm Paint: 25 um

Material:

- Steel | PVDF
- Steel | AISI 304
- Steel | AISI 316

Colors: • RAL 9002

• RAL 9010







Rockwool Filled Panel

Aluminum Honeycomb Filled Panel



FILLING

150 kg/m3 rockwool

Thicknesses

• 50 mm

Sheet thickness: 0,8 mm Paint: 25 um

Material:

- Steel | PVDF
- Steel | AISI 304
- Steel | AISI 316

Colors:

• RAL 9002 • RAL 9010

INSTALLATION DETAILS



Wall joint Profile and

Silicone Gasket

Wall joint 4 mm silicone gap



Floor Profile





Foil thickness0,05 mm

Core width • 14 mm

Sheet thickness: 0,8 mm Paint: 25 um

Material:

- Steel | PVDF
- Steel | AISI 304
- Steel | AISI 316

Colors: • RAL 9002

• RAL 9010







Clean Room Doors

Our door systems which are prepared in accordance with clean room standards feature high impermeability. Doors are produced from PVDF coated galvanized steel with or without glass, as single-wing, double-wing and sliding doors. Airlock system doors are produced for transitions from a clean room of a specific class and category, classified according to the intended use, to a room of a different class. There are traffic lights, emergency exit button, timer for waiting in the open or closed position at the doors which provide controlled transitions. In addition to the standard sizes in all door types, custom sizes are also produced by our company as per the projects.



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Single Leaf Clean Room Door





Panel Metal Sheet

Steel | PVDF

Colors:

- RAL 9010
- RAL 9002

Options

- Stainless Handle
- Airlock
- Magnetic
- Mechanical • Threshold guillotine

Hinge

Adjustable in 3 axes

- ဗ္ဗ DOOR တPTIONS







Double Leaf Clean Room Door





P	Panel	Μ	etal	Shee
•	Stee		PVD	F

- RAL 9010
- RAL 9002

Options

- Stainless Handle
- Airlock
- Magnetic
- Mechanical
- Threshold guillotine

Hinge

Adjustable in 3 axes

မှာ DOOR တPTIONS







Clean Room Glass Panel

It is manufactured in a constructive structure compatible with clean room wall panels. It is used in areas where visibility is required and where transparency is desired in clean rooms according to the design.

Double Glazed Tempered Glass Panel
Laminated Glass Panel



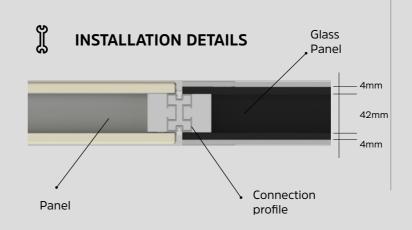
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Double Glazed Tempered Glass Panel



Double Glazed Tempered Glass Panel

Double Glazed Tempered Glass Panel consists of 4+42+4 mm double-sided tempered glass. It is produced to your desired dimensions.

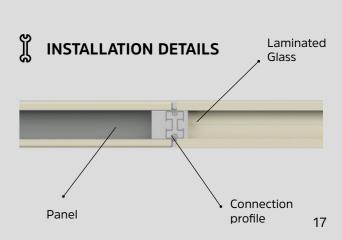


Laminated Glass Panel



• Laminated Glass Panel

Laminated Glass panel system consists of single glazed, 6+6 mm laminated glass. It is produced to your desired dimensions.





Clean Room Ceiling Panel

The clean room ceiling panel is manufactured as compatible with our wall panels. Ceiling panels are manufactured to have a structure which will create a sealed ceiling surface in the clean room and can carry accessories to be used on the ceiling such as HEPA Filter and Lighting Fixture.

Due to its structure, the ceiling system provides easy assembly and disassembly with the accessories on it.

T-Grid Modular Ceiling

Walkable Panel Ceiling

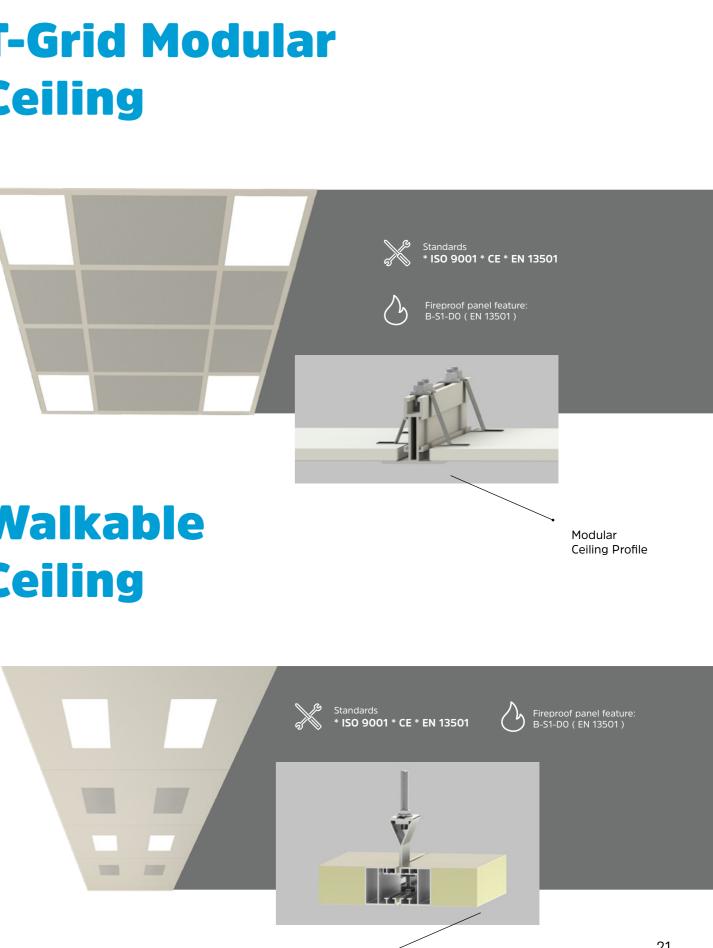


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Ceiling



Walkable Ceiling



Walkable Ceiling Profile

Clean Room Technologies

Clean Room Pass box

They are compact cabinets specially designed for material transfer between clean rooms. There are three types of pass boxes: Active, static and dynamic.



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Pass box





OPTIONS AND ACCESSORIES ۳ ۳

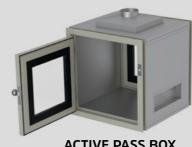
Interior surface AISI 304 steel

Exterior surface:

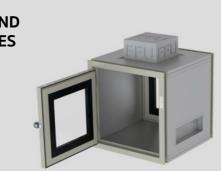
- Painted galvanized steel
- AISI 304 steel

Özellikleri:

- HEPA filter
- UV led Airlock
- Air flow
- Mechanical lock
- Emergency button

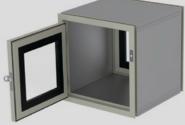






DYNAMIC PASS BOX

ACTIVE PASS BOX



STATIC PASS BOX



Accessories

Vertical Corner Profile



Door Finish Model 1



Lower Outside Corner



Upper Hygiene Profile



Ceiling Profile



Door Finish Model 2



Lower Inside Corner



Lower Hygiene Profile



Our Expertise in CLEAN ROOM for your **Applications**

Our 30 years of experience in TURN KEY SOLUTIONS make us your ideal Contract Development Organization.

Your vision. Our Know-How From Lab to Factory **Building a GMP Facility**



We SETUP

- Quality management
- Personnel and organization
- · Building, equipment, equipment and materials
- Documentation
- Raw product input, product processing, storage and distribution
- Quality control and proficiency tests
- Approval and authorization of all transactions
- Complaints and recalls
- Investigation of errors, clinical follow-up of the manufactured products after use
- · Storage of samples, disposal of problematic, returned products
- Internal and external audit

Clean Room Technologies





We SUPPORT

- Raw material
- Processing
- Product development
- Production
- Packaging
- Storage
- Distribution

With all TECHNOLOGY **TRANSFER AND** documentary Works!





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