

Complete Cleanroom Solutions



SINGLE SOURCE SIMPLICITY FOR
INTELLIGENT CLEANROOM

CLEANROOM
SYSTEM

CLEANROOM
INFRASTRUCTURE

CLEANROOM
EQUIPMENT

ADVANTAGES OF FABTECH MODULAR PANELS

- ✓ Thin and lightweight construction & easy to clean
- ✓ Factory quality control during pre-fabrication
- ✓ Wide variety of form and surface material
- ✓ Doors compatible with panel materials
- ✓ Excellent insulating property
- ✓ Flexibility which allows for future changes
- ✓ No hassles of cracks filling and repainting i.e. maintenance free without any recurring expenditure
- ✓ No protruding surfaces on which dust or other contaminants can settle
- ✓ Density $40\pm 2\text{kg/m}^3$ polyurethane PUF insulation and non CFC, hence, environment friendly
- ✓ FM approved panels



CLEANROOM MODULAR DOORS

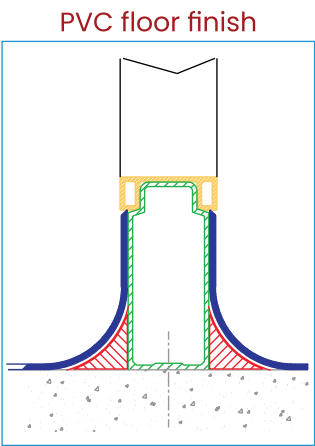
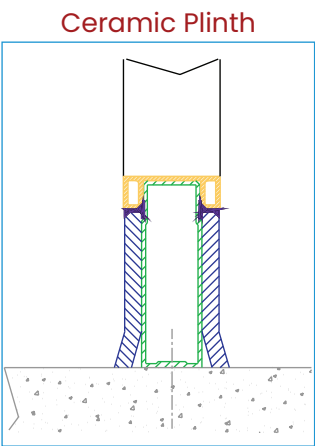


- ✓ Galvanized and stainless steel in MOC
- ✓ Epoxy polyester based, powder coated/painted (60 to 80 microns)
- ✓ Highly corrosion resistant
- ✓ Flush construction
- ✓ Strong, durable & maintenance free
- ✓ Shutter thickness 46 mm
- ✓ High level aesthetics & easy to operate
- ✓ Flushed glazed windows of varying sizes
- ✓ High density (40kg/m^3) pre insulated (honey comb/puf)
- ✓ Single/double doors with equal/unequal shutters
- ✓ **Standard height:** of 2100 mm with stainless steel hardware
- ✓ **Width:** variable up to 1150 mm of door shutter
- ✓ **Frame thickness:** 50/15/100 mm

SPECIFICATION OF FABTECH MODULAR PANEL

MODULAR DOUBLE WALL PANELS

MOC Skin	GPSP, PCGI-PCGI, PPGI-PPGI, PCGI-SS, PPGI-SS
Structural framework installation	GI, PUF (40±2 kg/m³) ROCKWOOL (96 kg/m³)
Connecting profile	Extruded H-type aluminum profile
Base profile sealant	GI box profile, B & C profile
DIMENSIONS Width Height (max) Panel thickness for PCGI Coating thickness for PCGI Sheet thickness	985/1185 mm Up to 4000 mm 50 mm / 80 mm / 100 mm / 150 mm 60 – 80 micron 0.6 – 0.8 micron
FINISH SS-PPGI-PCGI	Matt finish



WALKABLE FALSE CEILING

MOC Skin	GPSP, PCGI-PCGI, PPGI-PPGI, PCGI-SS, PPGI-SS
Structural framework installation	GI, PUF (40±2 kg/m³) ROCKWOOL (144kg/m³)
Connecting profile	Extruded H-type aluminum profile
DIMENSIONS Width Height (max) Panel thickness for PCGI Coating thickness for PCGI Sheet thickness	985/1185 mm 3000 mm PUF (50 mm)/ ROCKWOOL (80 mm) 60 – 80 micron 0.6 – 0.8 micron
FINISH SS PPGI/PCGI	Matt finish



PERFORMANCE CHARACTERISTIC - FABTECH COMPLIANCE



FIRE RATING

STD Panel-Non
Optional - MO or MI



IMPACT RESISTANCE

The panel should a lateral shock of 240 joules without deformation and destabilization of the partition



AIR TIGHTNESS

System should comply with the following pressure drop values



FM APPROVED

STD Panel-Non
Optional - MO or MI

SPECIFICATIONS		PROVERZ
1.25		0.35
2.5		0.65
3.75		0.9



MECHANICAL

Indentation - 6mm as per ISO 1520
Strong enough to support a hanging load of 200 kg/lm



ACOUSTICAL

In accordance with ISO standards and to achieve a minimum sound reduction of

RW 46 dB for Solid panels
RW 46 dB for Glazed panels
RW 46 dB for Solid panels



SURFACE RESISTIVITY

It should not be more than 1012 ohm sq. This property is important to avoid static build-up during wall cleaning and wipe down procedures. Which may otherwise attract back the dust particles



THERMAL PROPERTIES

$U = 0.12 \text{ BTU/hr sqft}$



CHEMICAL RESISTANT

Compatible to the test alkalinity salt spray immersion in distilled water exposure to detergent

INDUSTRIES WE SERVE



Pharmaceutical Facilities



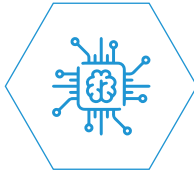
Food Processing



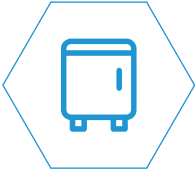
Hospitals



Dairies



Semiconductor



Cold Rooms



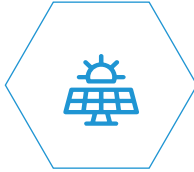
Veterinary Centres



Electronic Industries



Laboratories



Solar Manufacturing



BIO SAFETY CABINET

TECHNICAL DETAILS



- MOC: SS 304/SS 316/ FLP option
- Double walled flushed glass side panels
- Sliding toughened glass sash with counter weight
- Alarm trigger case is lifted more than 6"
- Two stage filtration (EU4/H14)
- Statically & dynamically balanced motor-blower & PAO test port
- Microprocessor based control
- Fluorescent LED light & ISO Class 5
- Differential pressure gauge
- Polycarbonate/ glass view side panel
- Heavy duty PU coated lockable castor wheel
- Protocols: DQ, IQ and OQ



VERTICAL LAMINAR

TECHNICAL DETAILS



- Ceiling suspended laminar air flow
- Horizontal & vertical laminar air flow
- Stand mounted with working table top
- MOC: SS 304/SS 316/ FLP option
- Double walled construction
- Two stage filtration (EU4/H14)
- Statically & dynamically balanced motor-blower
- Microprocessor based control
- Fluorescent LED light & ISO Class 5
- Differential pressure gauge
- Unidirectional laminar air flow
- Folding polycarbonate panels/ sash (for horizontal LAF/ vertical LAF)
- PAO test port/protocols: DQ, IQ and OQ



DYNAMIC PASS BOX

TECHNICAL DETAILS



- MOC: SS 304/SS 316/Customized
- Self-supporting stainless steel construction
- Micro-processor based interlocking system
- Fresh air pre-filter behind the perforated plates
- HEPA filter H14/ H13 & digital gauges
- Motor blower provided for statically & dynamically balanced, sufficient capacity & static pressure maintained to take care of airflow for entire life to HEPA
- Perforated plate or membrane distributor air outlet surface
- Speed control motor blower to maintain ISO Class-5
- GMP-/ FDA-compliant design



STATIC PASS BOX

TECHNICAL DETAILS



- MOC: SS 304/SS 316/FLP option
- Double walled construction
- Double glazed door with toughened glass
- Electromagnetic interlocking system
- Microprocessor based control
- Fluorescent LED light
- Protocols: DQ, IQ and OQ



LAMINAR AIR FLOW WORKSTATION

TECHNICAL DETAILS



- MOC: SS 304/SS 316/customized
- Folding polycarbonate panel at the front
- Laminar airflow system (vertical or horizontal)
- Fresh air pre-filter & LED lighting
- HEPA filter H14/ H13 & digital gauges
- Perforated plate or membrane distributor air outlet surface
- Speed control motor blower to maintain ISO Class-5
- Integrated control system
- Technical documentation according to the machinery directive
- GMP-/ FDA-compliant design



DISPENSING/SAMPLING BOOTH

TECHNICAL DETAILS



- MOC: SS 304/SS 316/customized
- Reverse laminar airflow system
- Front flow restriction with anti-static PVC curtain
- Fresh air pre-filter & intermediate filter
- HEPA filter H14/H13
- Digital gauges & LED lighting
- Perforated plate or membrane distributor air outlet surface
- Integrated cooling system incl. mixed water control for condensate-free cooling
- Control system in a separate switch cabinet
- GMP-/FDA-compliant design



MIST SHOWER

TECHNICAL DETAILS



- MOC: SS 304/SS 316/ Customized
- Self-supporting stainless steel construction
- Interlocked, electrically monitored airlock doors with static seals
- Fresh air pre-filter behind the perforated plates
- HEPA filter H14/H13 & digital gauges
- Motor blower provided for statically & dynamically balanced, sufficient capacity & static pressure maintained to take care of airflow for entire life to HEPA
- Perforated plate or membrane distributor air outlet surface
- Automatic fan control for a constant LAF speed
- GMP-/ FDA-compliant design



AIR SHOWER

TECHNICAL DETAILS



- MOC SS 304/SS 316/ FLP option
- Double walled construction
- Two stage filtration (EU4/H14)
- Statically & dynamically balanced motor-blower
- Microprocessor based control
- Fluorescent LED light & ISO Class 5
- Differential pressure gauge
- Unidirectional laminar air flow
- SS 304 door with view glass
- PAO test port/protocols: DQ, IQ and OQ



MOBILE LAF TROLLEY

TECHNICAL DETAILS



- MOC: SS 304/SS 316/ FLP option
- Electro-magnetic interlocking system
- Two stage filtration (EU4/H14)
- Statically & dynamically balanced motor-blower
- Microprocessor based control
- Fluorescent LED light & ISO class 5
- Battery back up with Inverter for 30-45 Min
- Removable shelves & PAO test port
- Re-Circulatory laminar air flow
- Double glazed SS door with toughened glass
- Heavy duty PU coated lockable castor wheel
- Protocols: DQ, IQ and OQ



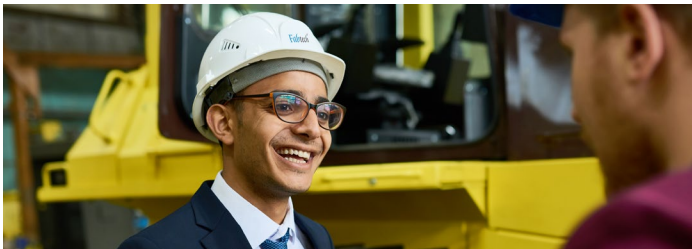
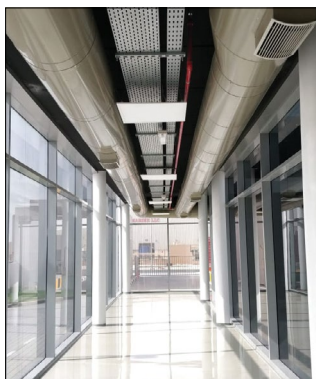
DE-DUSTING TUNNEL

TECHNICAL DETAILS



- MOC: GI powder coated/SS 304/ FLP option
- Double walled construction
- Statically & dynamically motor-blower
- Air velocity 4000 to 6000 FPM
- SS roller/ belt conveyor
- Two stage filtration (EU4-EU6)
- Microprocessor based control supervises all functions PLC/ HMI (optional)
- Adjustable brushing system (optional)
- PVC semi/ high speed shutter
- Emergency switch & LED light
- Removable dust collection tray
- Protocols: DQ, IQ and OQ

OUR PROJECT PORTFOLIO



We are proud to deliver solutions that solve the challenges of the top life sciences, F&B, IT, semiconductor and aeronautics companies across the world.

OUR CLIENTS



STATE OF THE ART MANUFACTURING FACILITY

Imported Roll Forming Machine- Company has an imported customised roll forming machine. This machine is used for cutting and bending sheets to make trays of various sizes and shapes.

Amada Punch Press- A CNC based machine with 22 ton capacity and 30 different tooling programs to make cut-outs on metal sheets.

Amada Brake Press- A CNC based machine with programmable gauge adjustment capacity of 100 tons. It is used for bending sheets and profiles.





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