



Modular Cleanroom

Our Capabilities



PRELIMINARY DESIGN

The design process enables us to produce a detailed quote for your cleanroom project by identifying your needs and objectives, the regulations and classification requirements, the general technical specifications, and any other requirements.



ENGINEERING & DESIGN

Our in-house mechanical engineers will design your cleanroom - with or without an HVAC system. We can also work in tandem with other professionals on your project (Consultants, Architects, Contractors, Engineers).



MANUFACTURING AND CONSTRUCTION

Manufacturing modular components under ISO 9001 in the controlled environment of our factory enables us to produce and guarantee product quality and on-time delivery.



SHIPPING & INSTALLATION

Aastha can provide its own qualified installers worldwide. Your cleanroom is packaged and shipped directly from our factory and unloaded and installed by our team.



START-UP, PRE-CERTIFICATION, PRE-VALIDATION

Once installation is completed, we will make sure the cleanroom functions properly. Aastha thoroughly tests the cleanroom to confirm that it will operate according to design objectives and specifications.



AFTER SALES SERVICE

All our clients benefit from our market leading after-sales service. Feel free to reach out to our specialists to discuss additional service packages or options.



With Knowledge
& Experience
We Understand
Your Needs in
Pharmaceutical
Manufacturing

With a deep understanding of the critical nature of contamination control, AASTHA designs, constructs, and equips state-of-the-art cleanroom facilities that adhere to the most stringent quality and regulatory standards.

Our professional
cleanroom solutions
include:

- Wall Partitions
- Walkable Ceiling
- Cleanroom Accessories
- Integrated Risers
- Hermetic Sealed Doors
- Sterile Window Systems
- Sterile Flooring
- Turnkey HVAC Solutions





MODULAR WALLS

Our configurable panel system allows us to offer custom cleanrooms at competitive pricing.

A vital component in the creation of modular cleanrooms are the wall panels which form an important part of our product offering. Our modular cleanroom walls are manufactured in standard sizes and can also be customized depending on the application requirement.

Modular wall panels are designed for ease in installation and a practical functionality, while maintaining a modular flexibility to interchange through ease of demount ability. Whether you are adding-on, modifying an existing facility, or constructing a new facility, our wall panel portfolio offers materials and designs suit your specific application.

Each panel made by us is completely sealed on all 4 sides, using extruded aluminum profiles, and insulated with high density materials to guarantee superior mechanical stability of the wall itself.

Aastha Cleanrooms





INTEGRATION OF ELECTRICAL & MECHANICAL UTILITIES

BUILT-IN AIR RETURN

PRE-ENGINEERED ACCESS AND CONTROL PANELS



- Power Outlets and Light Switches
- Network and Telephone
- Instruments for Control and Monitoring

- Low air returns are engineered within the wall panel cavity to minimize space, maximize building footprint and provide easy cleaning.

- Gases (Oxygen, Nitrogen, etc.)
- Compressed air
- Purified water

www.aastha-india.com

Panel Insulation

Insulation prevents the transmission of electricity, heat, moisture, shock or sound from one medium to another.

ROCKWOOL PANELS

- Heavy in weight
- Good insulation
- Sound Isolation
- Fire resistance

POLY URETHANE FOAM PANELS

- Light in weight Weather-proof
- Resistant to compression
- Moisture resistance

POLYISOCYANURATE - (PIR)

- Light weight
- Heat and sound insulation
- Good chemical resistance



MODULAR CEILING

THE PERFECT FINISH

Our self-supported clean room structure allows us to provide truly walkable ceilings for every cleanroom project.

We have a wide range of sophisticated standard systems for turning your ideas into reality and we regularly add new solutions. We'll be happy to advise you on design and construction details as well as important functions so that you can find the right ceiling for every application.

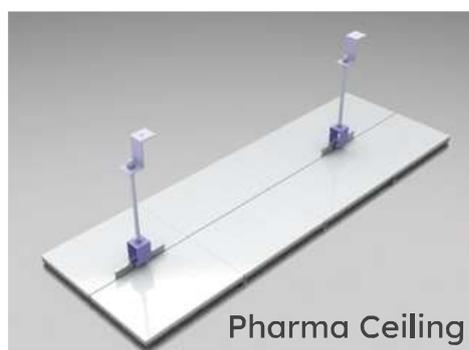
Our ceiling system uses the same panel construction as our walls.

Walkable ceilings allow for easier access and installation of equipment above the cleanroom. Maintenance staff can traverse the whole ceiling. There is no need for costly and obstructive catwalks and mezzanines with a our cleanroom!

Walkable & Non Walkable ceiling panels are made as per client's requirement with specially designed stiffening systems for walkable load bearing ceilings

The absence of tiles results in a TRULY smooth and easy-to-clean finish.

Aastha Cleanrooms





Cleanroom grid ceiling systems ensure airtight, contamination-free environments in solar manufacturing, supporting integrated components like HEPA filters, lighting fixtures, and FFUs. Gasket-seal or gel-seal aluminum T-grid systems are preferred for their durability, flexibility, and compliance with ISO Class 4–5 standards.

Key Features

Material: Anodized aluminum or galvanized steel T-grids with insulated sandwich panels (rock wool or aluminum honeycomb core).

Airtight Sealing: Gel-seal or gasket system with food-grade silicone to maintain positive pressure and prevent contamination.

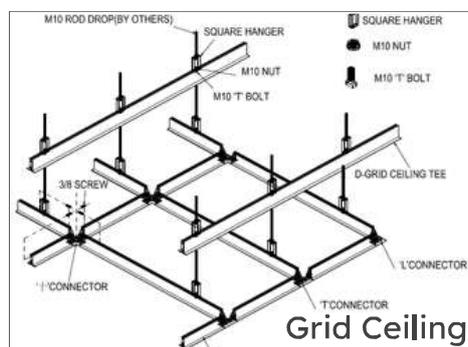
Load-Bearing Capacity: Walkable panels support up to 250 kg/m², allowing safe maintenance access above the ceiling.

Integration: Designed to accommodate HEPA filters, FFUs, and flush light fixtures within a modular layout.

Flexibility: Modular T-grid layout allows easy reconfiguration or replacement of panels and components as production needs evolve.

Cleanroom Grid Ceiling System for :

- Solar
- Semi Conductors
- Electronics
- Manufacturing Plants





WALL & CEILING SYSTEMS

Specifications

Infill	Poly Urethane Foam Panels	Rockwool Panels
Panel Width	1230 mm max.	
Panel Height	Upto 6 Mtrs.	Upto 4 Mtrs.
Panel Thickness	<ul style="list-style-type: none"> • Standard - 50, 80, 100 mm • Non Standard - 30, 150, 200 mm 	
Core Density	42 +/- 2 Kg	96 +/- 2 Kg
Material of Constructions	<ul style="list-style-type: none"> • PPGI - Pre Painted Galvanized Steel • PCGI - Powder Coated Galvanized Steel • S.S. - Stainless Steel (304/316) • HPL - High Pressure Laminate • GRP - Glass Reinforced Plastic 	
Surfaces Finishes	<ul style="list-style-type: none"> • Epoxy Polyester Coated • Pure Polyester Coated • PVDF Coating • Plain / Decorative Laminates 	

Aastha Cleanrooms

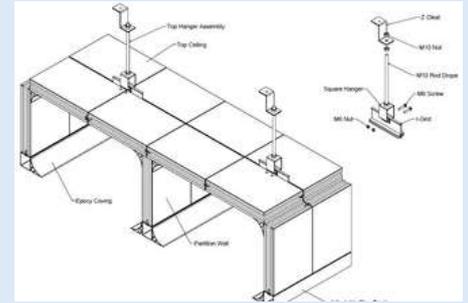


Sheet Thickness	<ul style="list-style-type: none"> • 0.6 / 0.8 / 1 /1.2 mm (Steel) • 3 mm (HPL) • 1.2 mm (GRP)
Floor Track	<ul style="list-style-type: none"> • Raised Aluminium Extruded Profile
Peripheral Profile of Panels	<ul style="list-style-type: none"> • 0.8 mm Galvanized Sheet 'W' Profile to cover the exposed Infill in Steel Panels • 1.5 mm Aluminium Extruded 'W' Profile to cover the exposed Infill in HPL Panels



BENEFITS

- Excellent Insulation
- Quicker to manufacture, install and commission
- Panels can be made up to 6 meters in length
- Easy to incorporate any design changes during project execution
- Flush surfaces for easy cleaning and for complying with cGMP requirements
- Good stability due to advanced architectural design
- Prefab panels with concealed electrical wiring
- Self Supporting, demountable system
- Built-in Panel Return Air Risers, Return air Duct concealed in panels
- Flexible to make cut-out at Site for Lighting, HEPA Filter etc.
- Walkable, Service Ceiling
- Easy to assemble and dismantle.
- Concealed Suspension



www.aastha-india.com





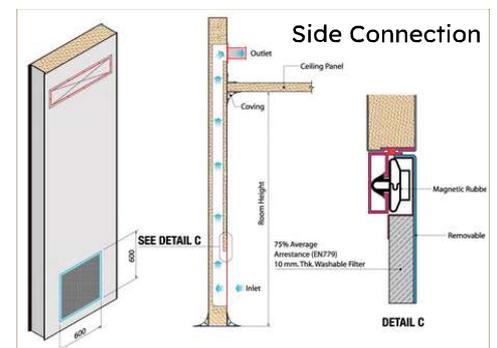
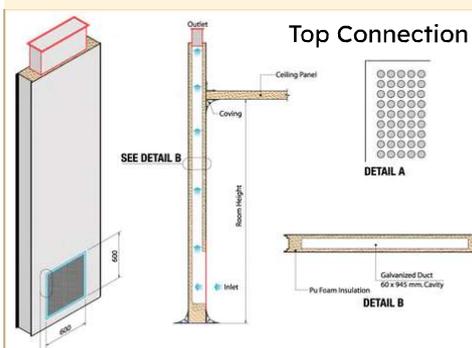
RETURN AIR RISERS

Many cleanrooms use a low-level air return system to help achieve laminar air flow and even temperatures. This means that air is returned from the top of the room to the bottom. Since hot air rises and cold air sinks, this combination of the air helps to maintain an even temperature.

- Extended Flange of 300 mm for Duct Connection
- Top Connections or Side Connections
- 10 Micron Washable Filter
- Volume Control Damper in Aluminium construction
- Powder Coated or S.S.304 Grill with S.S. 304 Dome Nut
- Magnetic Locking Arrangement
- Openable & Serviceable Riser Ducts
- Risers Concealed in Insulated Panels (In Built) or Exposed Box Riser



Aastha Cleanrooms





CLEANROOM ACCESSORIES

Our covings are used to create fully flushed corner transitions and seamless wall-to-ceiling and wall-to-floor connections.

Monolithic wall and ceiling joints are bonded together, and three-way welded corner assemblies are available for inside ceiling corner and wall intersections.

Our aluminum covings are designed & developed in compliance with the industry standards. Covings are manufactured using quality food grade materials.

Our covings can be provided with the following options:

- Aluminum Coving (Powder Coated)
- Aluminum Coving (Anodized)
- Stainless Steel 304

Aluminium Coving



www.aastha-india.com

Coving Features

- Wall to wall & wall to ceiling coving
- Aluminium snap on backing angle
- Internal corners
- Silicone required for airtight seal
- Zero maintenance
- Easily replaceable in matter of seconds
- Aesthetic look & appeal
- Color choice as per our standard shade card
- 2D & 3D pieces are available



CLEANROOM DOORS



Cleanroom doors are an important part of the cleanroom. They are responsible for sealing the controlled clean area. Clean room doors can be configured as single or double swing doors (manual or motorized) and can be 100% customized.

All doors are airtight, easy to clean with smooth surfaces as well as corrosion resistant.

Door frames fit flush in wall and are suitable for every cleanroom application.

FEATURES

- cGMP design
- Custom dimensions
- Single and double doors in all heights and widths
- Windows, double glass flush in door, various sizes
- Multiple door options (access, Locks, protection, etc.)
- Suitable to fit any wall system

Specifications

MOC

Door Leaves

Infill Material

Door Frame Thickness

Door Frame Sheet Thickness

Door Leaf Thickness

Door Leaf Sheet Thickness

S.S.304 / Powder Coated / High Pressure Laminate

Single or Double

Anti-combustion PUF (FR Grade) 42 +/- 2Kg Density
Fire Proof Rockwool 96 Kg +/- 2Kg Density

50mm, 80mm, 100mm for Panels
100mm, 150mm for Civil Walls

1.2 mm Galvanized Sheet Duly Powder Coated with Pure Polyester Powder Paint

45mm Thickness

0.8 mm Galvanized Sheet Duly Powder Coated with Pure Polyester Powder Paint

Aastha Cleanrooms



CLEANROOM WINDOWS

Double Glass Windows are easy to combine with any wall system and have a flush connection to connecting walls, doorframes or other windows.

Due to its flexibility in size of the window is easy to integrate in any design.

We offer a variety of windows for clean room applications that integrate seamlessly with its modular wall and ceiling systems. Cleanroom windows can also be integrated into return air walls to minimize any air flow disruption.

The smooth surface of the vision panel ensures cleanliness, hygiene, stability and attractive appearance.

Specifications

Thickness	50 mm, 80 mm, 100 mm
Maximum Dimensions	1000 mm x 3000 mm
Glazing Glass	Single / Double / Triple 6 mm Toughened Glass 6 mm Polycarbonate Glass
Window Frame	Aluminum
Finish	Polyester Powder Coat Anodized Silver
Weight	6 mm Toughened Glass 23kg / m ² 6 mm Polycarbonate Glass 16kg / m ²



Types of View Panels

- Double Glazed Vision Panel
- Single Glazed Vision Panel
- Louvered Window
- Lead Lined Glass
- Fire Rated Glass

www.aastha-india.com



CLEANROOM FLOORS

Selecting the correct floor for any classified area has a big impact on cleanliness, durability and usage.

Aastha can supply any type of floor and can assist in selecting the correct floor based on usage and requirements. For floor installation Aastha is cooperating with strong validated partners with experience in floor installation for classified areas

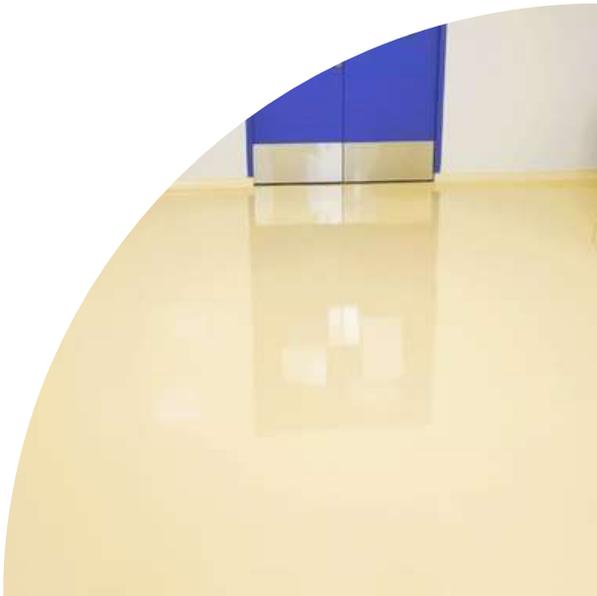
Aastha's Wall Systems are designed to create a flush connection to various flooring types

FEATURES

- Supply any type of floor
(PVC based/Epoxy based/Anti-static)
- Flush connection to our wall system
- Walls maintain demountable without damaging flooring and coving
- Experienced and validated partners for floor installation

OPTIONS

- Various finishings /coatings
- Various colors
- Various chemical resistance



CLIENTEL

ASSEMBLY & SERVICES

With our vast experience of cleanroom installation around the world, we are able to offer a comprehensive solution, not just a product or system.

We not only offer our customer the know - how for product development, manufacturing and installation, but also a complete range of cleanroom service to ensure quality, function and on-time delivery.

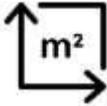
Manufacturing Unit :
Plot No. L-2/3, Additional MIDC, Mahad,
District - Raigad 402 302,
Maharashtra, INDIA

✉ sales@aastha-india.com
🌐 www.aastha-india.com

Corporate Office:

Aastha Cleanroom Systems Private Limited
Signature Business Park, 1410, 14th Floor,
Postal Colony, Chembur (East),
Mumbai 400 071, MH, INDIA

📞 +91 90292 63615 / +91 96199 02276

						
Location (MH) INDIA Mahad, Raigad	Corporate Office Mumbai, INDIA	Area Sq.Mt 13900		Employee Strength 225+	Experience Years 20+	Projects Completed 750+



Our Global Foot Prints

Algeria	Bangladesh	Bolivia	Egypt	Ghana	Iran	Oman	Kenya
Nepal	Philippine	Qatar	Sri Lanka	Vietnam	UAE	UK	USA