



# GCS DESIGNS AND SOLUTIONS CLEANROOM



EXCELLENT IN  
**CONTROLLING**  
**ATMOSPHERE**

## CLEAN ROOMS



Where critical levels of cleanliness must be maintained there GCS Designs and Solutions pre-engineered modular system offers a cost-effective alternative to conventional construction while providing durability and clean room performance.

GCS Designs and Solutions modular's are movable and re-locatable to years of usability and versatility, clean room wall systems interface with the clean workspace that maintains optimum airflow, pressure, temperature, humidity and cleanliness, Rooms can also be engineered to meet special size requirements.

We understand your needs. Our modular construction allows fast, easy installation as well as design flexibility to meet your changing needs without sacrificing quality.

## CLEAN ROOM PANELS



### Features :

- Removable & Re-locatable
- Cost-effective & alternative to Conventional construction
- Built to drawing layout, minimal Alteration required
- Fast and easy installation
- Pre fabricated cut out for utilities
- Totally flush concept.
- Highly corrosive resistance, durable.

### Specification :

- Panel thickness-50MM /80MM /100MM
- Insulation Put (40 kg/ M3), Rock wool
- Ceiling Panel Single skin
- Double skin/ Walkable/ Non walkable
- Pre-coated Aluminium/ SS/ Aluminium Composite sheets.
- Standard wall partitions are a composite Construction of two skin pre-coated/ powder coated GI

## MODULAR OT



### Features:

- A constant flow of extremely clean 'bacteria-free' air is reticulated below positive pressure into the working field and air pollutants produced during surgery are removed from the site.
- Easy to pure steam cleaned, electro metric ( ideal for high humidity areas)
- Vapor permeability (allows substrate moisture to escape) protects against growth of mould, bacteria and yeasts.
- Thaw resistance / freeze, moisture resistance.

### Specifications:

- Compact & slick design
- Quiet operations less than 62 db
- Perforated grill to protect HEPA Filters
- Class 100 work surface
- Available in GI powder coated & PPGI
- Cost effective model
- No vibration
- Velocity 0.45ms +/-20% below working area. [Effective at one meter]
- Positive pressure in OT ensures no entry for outside contaminated air.

## LAMINAR AIR FLOW



### Specifications :

- Available in vertical ow and horizontal ow version
- MOC : stainless steel, GI / CRCA powder coated /painted
- Ceiling suspended L.A.F for filling and packing line etc
- Different sizes, type as per your requirements

## GI FLUSH DOORS



### Features :

- Stainless steel, GI and Aluminium in MO C
- Epoxy painted / powder coat e d
- Flushed construction
- Strong, durable and maintenance free
- High density puf (40kg/m3 )
- Stainless steel hardware.
- Inter locking
- Special clean room pin type hinges
- Spring operated wiper
- SS kick plate and push plate

### Specification :

- Frame thickness 50/80 MM
- Shutter thickness 40 MM
- Height variable upto 2400MM
- Width variabable upto 1200MM
- Single / double door with equal/ unequal shutters

## ALUMINIUM COVING



### Features:

- Two piece snap system
- Smooth round, easy to clean
- Minimum radius, aesthetic loo k
- Extremely ushed to surface
- Removable and re-usable

### Specifications:

- 3 Way welded corner assembly
- Ceiling to wall and wall to wall covings
- Covings are available in aluminium

## LABORATORY FURNITURE



### MOC of Laboratory Furniture :

- The furniture is made of CRCA TATA Steelium / Essar Steel Gauge : The Storage Cabinet is made of 18SWG
- Storage Cabinets : The storage Cabinets are made of CRCA 18 Gauge (TATA-Steelium) / Essar Steel in panel construction. Cabinets will have sandwiched doors & drawers Filled with profile with Locks, Door
- Hinges : The hinges will be SS304, Drawer Glides : The drawer should have Telescopic Glides for smooth movement.



## PASS BOX



### Features:

- Mechanical / electro magnetic interlocking
- Swing type door with view panels
- UV and florescent tubes
- Inbuilt covings in all corners
- Hour meter and maghnelic (dynamic pass box)
- Stiffener for rigidity of base
- Operator friendly controllers.

### Specifications:

- Available in static and dynamic versions
- Different sizes to suit customer requirement
- Available in SS/ CRCA PU painted/ partition panel inbuilt

## HEPA & PRE FILTERS



### Features:

- Low initial pressure drop and high dust holding capacity
- Filters available, pocket/ bag type Filters, pre Filters (10 to 20 micron), fine filters & minipleat heap Filters.
- High quality micro ber glass paper
- Polyurethane based sealant and neoprene rubber gasket
- Individually leak tested.
- Extruded aluminium casings.
- Large filtration area and long life
- As per all standards and guide lines.

### Specifications:

- Casing construction Galvanized steel / CRCA
- Powdercoated / Aluminium anodized / SS 304
- Flange type and box types are available
- Different size and thickness as per your requirement

## AIR HANDLING UNITS



### Features:

- Rigid frame work
- Anodized aluminium profiles
- High density CFC free puf filled panels.
- Galvanized steel channel base
- Corrosion free insulated condensate drain pan
- Vibration-free noiseless performance
- Thermal break profiles.
- Different stage filter sections
- Imported centrifugal fans
- Inbuilt covings
- Weather proof light, limit switch, view glass

### Specifications:

- Floor mounted, double skin vertical, ceiling suspended Ductable and special purpose AHU's are available. 500 to 100,000 CFM capacity
- Inner panels made out of stainless steel/ Aluminium/Pre coated/ powder coated sheets.
- Single skin and ventilation units are available





## GI DUCTING



### Features:

- We offer our clients an excellent quality range of GI air ducts
- Pre fabricated duct with MS angle flanges
- Available in different shapes and sizes.
- Ducts are resistant to corrosion & can with stand Temperature & pressure

### Specifications:

- Flexible ducts with all accessories
- Aluminium / GI return air risers
- Silicon/ solder / full Weldon options
- GI/ Aluminium / SS duct with rigid flanges
- Volume control dampers in aluminium / GI Thermocole With aluminium foil / nitrile rubber insulation

## CLEAN ROOM VALIDATION AND TESTING



We undertake complete validation documentation of clean room and clean room equipments

- Particle counting
- DOP test
- Filter leak test
- Air Flow Pattern
- Laminar airflow certification
- Recovery test
- Air changes
- Air balancing/ pressure balancing
- Temperature and humidity mapping
- Light intensity testing

## CLEAN ROOM PANELS



- 50 MM MODULAR PARTITION
- 80 MM MODULAR PARTITION
- 50 MM COMBO PARTITION
- 80 MM MODULAR PARTITION
- 50 MM DOUBLE SKIN CEILING
- 80 MM DOUBLE SKIN CEILING
- 50 MM DOUBLE SKIN COMBO CEILING
- 80 MM DOUBLE SKIN COMBO CEILING
- CLEAN ROOM FLUSH DOORS (GI / SS)
- PRE-FABRICATED DOUBLE GLAZE VIEW PANEL
- SNAP FIT COVINGS (ALUMINIUM / PVC)
- CLEAN ROOM LIGHT FIXTURE (TOP MAINTENANCE / BOTTOM MAINTENANCE)

