FLEXCON™
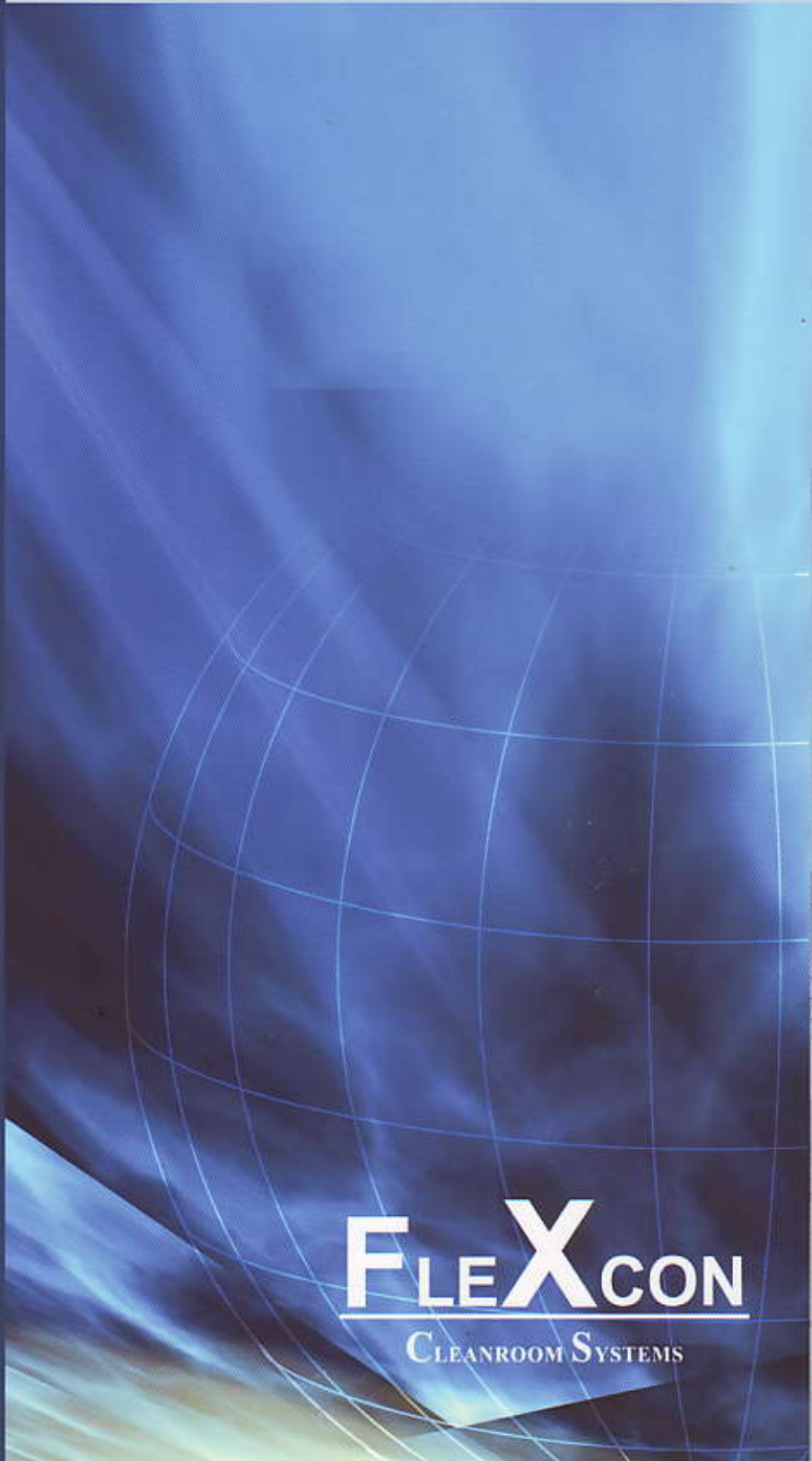
High Quality Clean Room Partition
Wall and Ceiling Grid Systems

FLEXCON
CLEANROOM SYSTEMS

Suzhou Flexcon Clean Room Systems Co., Ltd as manufacturing arm incorporated in Suzhou China with headquarter in Kuala Lumpur, Malaysia. Throughout years of continuous research and development, FLEXCON™ clean room systems combines USA technology and German engineering design for microelectronic, semiconductor, pharmaceutical, biotechnological and controlled environmental clean room.

Our team are dedicated to provide the best combination of quality products, on-time delivery and competitive offer. We help in managing your project from inception through execution. Further with our technical know how, our team will find the innovative ways to improve products, uncover new applications and reduce costs.

With the response from our clients, we have expanded the range consistently and on regular basis. In our current product range, we have developed cost effective and total solution for any clean room application

With FLEXCON™, your clean room projects always with an option to enjoy the close follow up, flexible systems, friendly consultancy and competitive offer.

COMPANY INTRODUCTION

Our Partner

Year 2007, a cross region strategy alliance being established among us and DAGARD S.A. in France. DAGARD S.A. incorporated in year 1951 with 7 hectares industrial site located 3 hours from Paris, France.

DAGARD S.A. is positioned as the designer and manufacturer of cold rooms, isothermal enclosures and clean room partition systems.

Alliance between Suzhou Flexcon and DAGARD S.A. ensure close cross-collaboration for quality and competitive pricing delivery.

dagard
Clean Room
www. dagard. com

Our Objectives

- Most trusted and respected by clients and staffs.

- To develop the most cost effectives, fastest lead time and best quality products for our clients.

- Offering services that outstrip clients expectation.

- Strengthen service, improve technology and quality to satisfy customers.

$C\epsilon$

PRODUCT RANGE

MICROELECTRONICS AND SEMICONDUCTOR CLEAN ROOM PARTITION WALL SYSTEMS

FAB DESIGN WALL SYSTEMS
SS2000 FRAMED SYSTEM
SL2000 NON-FRAMED SYSTEM
FL2000 FRAMED SYSTEM
CL2000 CLADDING SYSTEM

CLEAN ROOM DESIGN WALL SYSTEMS
B50 NON-FRAMED SYSTEM
C50 CAULKING SYSTEM

PHARMACEUTICAL AND BIOTECHNOLOGICAL PARTITION WALL AND CEILING SYSTEMS

PM50 PHARMA PARTITION WALL SYSTEM
I-GRID WALKABLE CEILING SYSTEM

CLEAN ROOM CEILING GRID SYSTEMS

CK1000 LIGHWEIGHT NON- WALKABLE CEILING SYSTEM
CK2000 / CK2000S HEAVY DUTY WALKABLE CEILING SYSTEM
CK5000 FLUSH GRID WALKABLE CEILING SYSTEM
T-GRID WALKABLE CEILING SYSTEM
D-GRID PLENUM WALKABLE CEILING SYSTEM
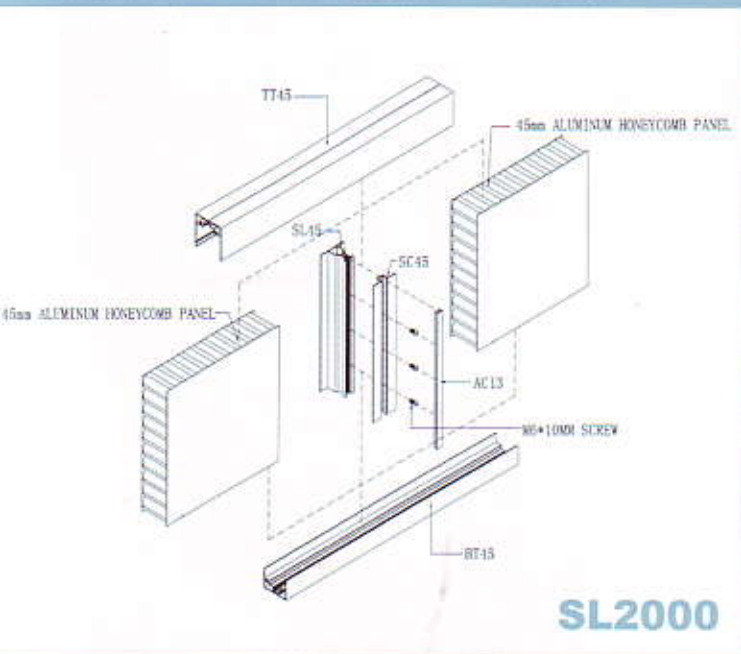
Fab Design Wall Systems

FAB DESIGN WALL SYSTEMS are offered in wide range of framed and non-framed types. The design fulfill with the microelectronics and semiconductor industry needs for supreme quality and cost effective solution yet suitable for any class clean room application. The systems provide stability for equipment fit-up and flexibilty for future expansion and retrofit. Non-progressive design easy adapt to constantly changing requirement, from expanding to retooling an entire operation.

Advantages of Fab Design Wall Systems

1. Suitable for tools, machinary, and equipment opening, especially for clean room fab.

2. Strong stud post and batten allow attachment of shelves and utility runs on panel surface.

3. Removable battens allow easy panel installation from either side of the wall without effecting the current wall structure for minimum contamination.

4. Non- progressive, demoutable, 100% relocation and reusable systems.

5. The systems are available in three types of panel thickness and can be interchangeble within the systems.

6. All fasteners are concealed for completed system.and suitable for clean room up to Class 1.

7. Wiring stud post for easy concealment of communication and electrical lines within the panel as optional.

8. The system is fully intergrated with window, door, return air grill and auto sliding door.

9. Floating head track design allow for ceiling deflection and minimize the batten cutting works at site.
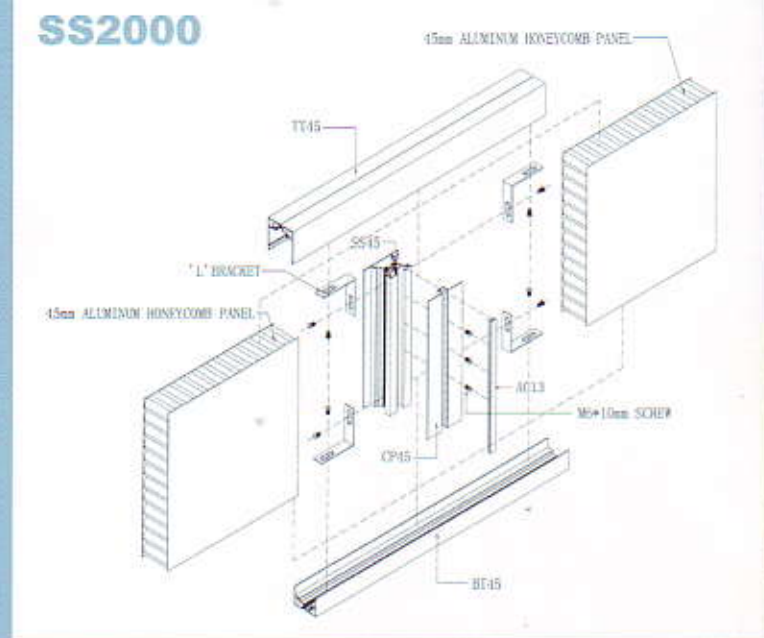
SL2000

Labels: TT45, 45mm ALUMINUM HONEYCOMB PANEL, SL45, SC45, 45mm ALUMINUM HONEYCOMB PANEL, AC13, M6*10MM SCREW, BT45
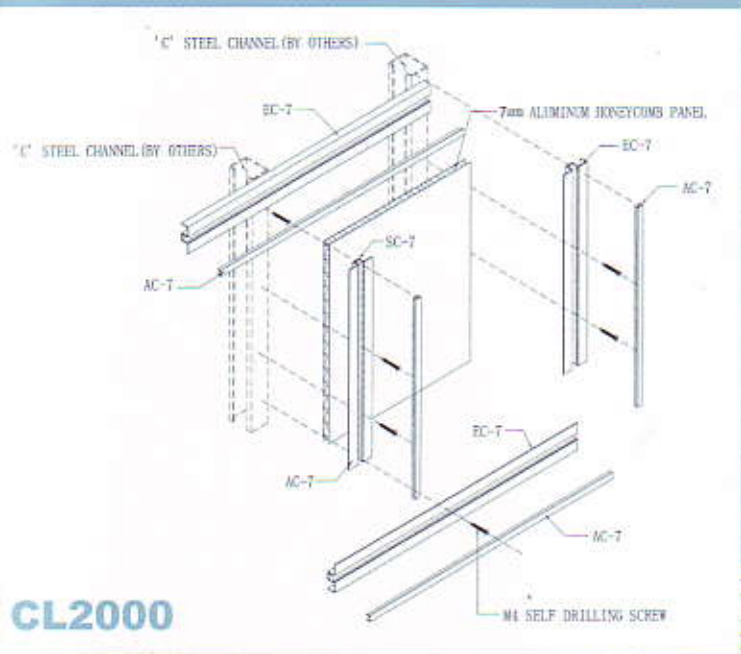
SL2000 NON-FRAMED SYSTEM

SL2000 NON-FRAMED SYSTEM come with 45mm thick either aluminum or paper honeycomb core panel to allow flush wall surface on both sides. SS2000 offers a fully demountable wall system without framing post, which provides more cost effective wall system.

SS2000

Labels: 45mm ALUMINUM HONEYCOMB PANEL, TT45, SS45, 'L' BRACKET, 45mm ALUMINUM HONEYCOMB PANEL, AC13, M6*10mm SCREW, CP45, BT45
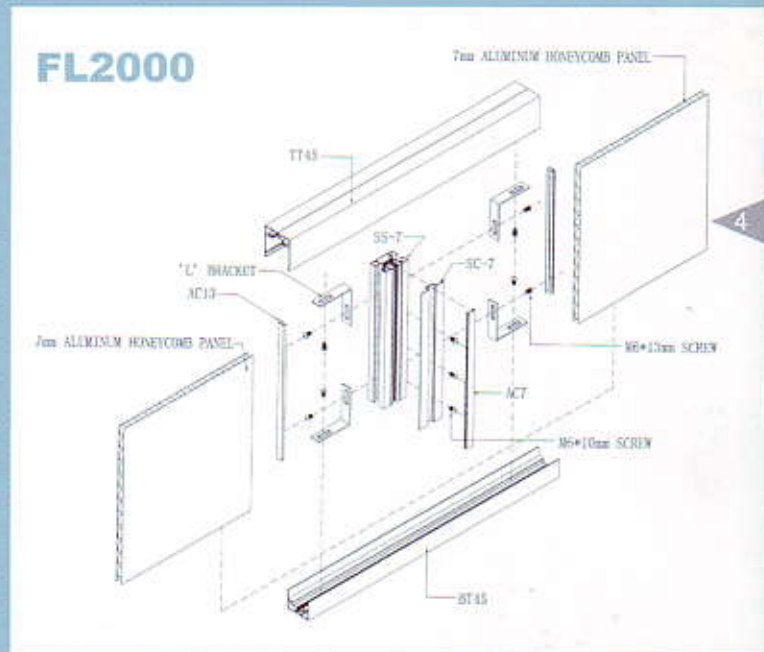
SS2000 FRAMED SYSTEM

SS2000 FRAMED SYSTEM come with difference types of aluminum or paper honeycomb core panel with thickness including 7mm, 13mm and 45 mm. With the combination, SS2000 allow flush wall surface on single or both sides.

CL2000

Labels: 'C' STEEL CHANNEL (BY OTHERS), EC-7, 7mm ALUMINUM HONEYCOMB PANEL, 'C' STEEL CHANNEL (BY OTHERS), EC-7, AC-7, SC-7, AC-7, EC-7, AC-7, AC-7, M4 SELF DRILLING SCREW

CL2000 CLADDING SYSTEM

CL2000 CLADDING SYSTEM is available with 7mm and 13mm thick aluminum honeycomb core panels. This is a cost effective system where panels install on the existing wall structure to provide consistence flush apperarance.

FL2000

Labels: 7mm ALUMINUM HONEYCOMB PANEL, TT45, SS-7, SC-7, 'L' BRACKET, AC13, 7mm ALUMINUM HONEYCOMB PANEL, M6*13mm SCREW, AC7, M6*10mm SCREW, BT45

FL2000 FRAMED SYSTEM

FL2000 FRAMED SYSTEM design with 7mm thick or 13mm thick aluminum honeycomb core panels to provide single side flush appearance. The system allows the panels to be mounted on the studs and provide the ability of tool installation or wafer transport systems framed openings. This is a most cost effective and fully demountable wall system for return air chase area.

Clean Room Design Wall Systems

Clean room design wall systems available in non-framed caulking and non-framed non caulking types. The systems ideal for interior design with non load bearing application and fullfill with the microelectronics and semiconductor industry needs for cost effective solution and suitable for clean room up to class 100.

B50 Non -Framed System

B50 NON FRAMED SYSTEM available in 50mm aluminum honeycomb, paper honeycomb or rockwool core (with close edge). The system provide both sides flush surface and design for environments within the clean room industry and all supporting and related industries.

Features and Advantages

1. No framing required during the installation, save on labor cost.
2. Removable battens allow easy panel installation from either side of the wall without effecting the current wall structure for minimum contamination.
3. Non-progressive, demoutable, 100% relocation and reusable systems.
4. All fasteners are concealed for completed system.
5. The system is fully intergrated with window, door, return air grill and auto sliding door.


B50
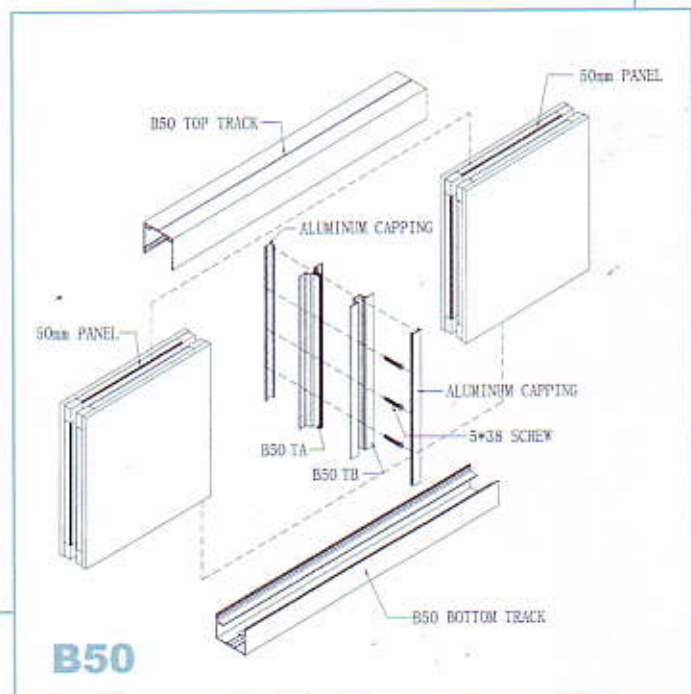
C50 CAULKING SYSTEM is available with 50mm thick either rockwool, aluminum or paper honeycomb core panel with close edge. This is a caulking system with application of sealant that provide both sides flush surface. Installation task will start with the bottom and top track, follow with progressive panels installation.

1. Provide supreme flush surface without exposed battens or other closure pieces.
2. An intermediate aluminum piece will be inserted in between 2 panels to establish wall strengthness.
3. Sealant apply in between the joint of panels maximize the control on room pressurization and better air flow.
4. The most cost effective system.
5. Fewer components allow for lower build up cost.

C50

50 TOP TRACK

50mm PANEL

ALUMINUM JOINT

50mm PANEL

50 BOTTOM TRACK

6
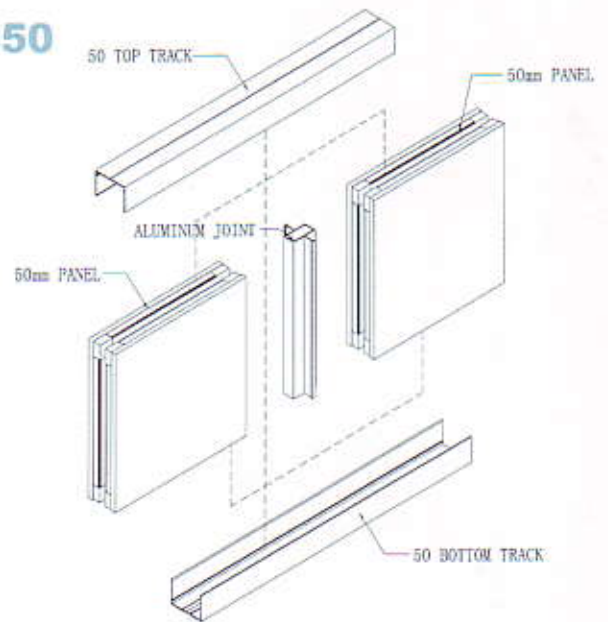
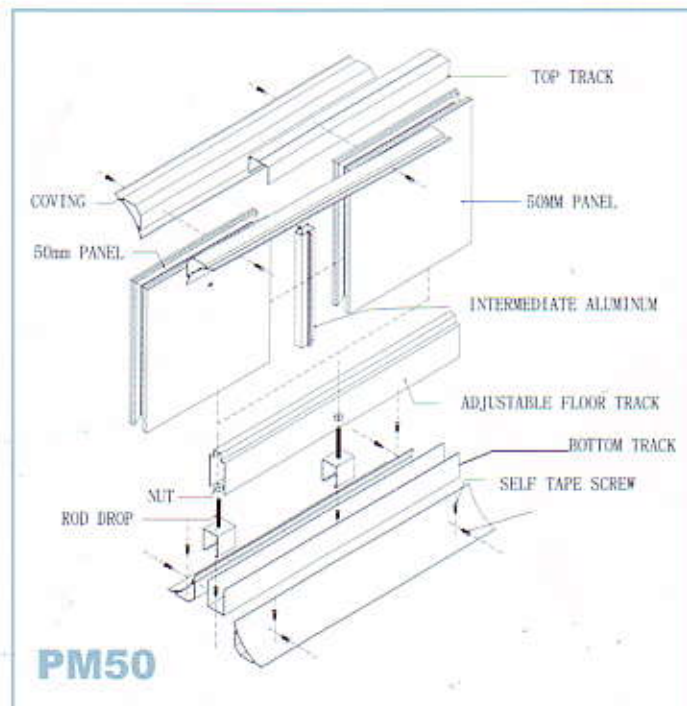# PHARMACEUTICAL AND BIOTECHNOLOGY PARTITION WALL AND CEILING SYSTEMS

Pharmaceutical and biotechnological fab need a completely flush panel system with products for both partition wall and ceiling grid applications. A high performance fungicide contains sealant in need to provide excellent air tight seal for controlling air flow , room-pressurization, humidity level , temperature and bacteria quantity for the production facilities. Further, for pharmaceutical application wall panel, the importance criteria will be withstand repeated cleaning and sanitization with various chemicals to resist microbial and fungal growth.

FLEXCON™ Pharmaceutical Partition wall and walkable ceiling grid systems are designed according to GMP requirments and constructed with aluminum honeycomb core which is non-combustible and due to the composite panel construction, enable opening to be formed on panel without additional structural reinforcement in need.

PM50 Pharma Partition Wall System

PM50 Pharmaceutical and biotechnological partition wall system with rockwool as in fill core provide better insulation, for production facilities that require stringent temperature control. While the system is available with aluminum honeycomb core panel with light yet strong structure. FLEXCON™ pharmaceutical and biotecnological partition wall system provide excellent flush surface to prevent posibility of contamination , microbial and fungal growth. The system is the ideal solution for cost effective controlled environments yet accommodate with the most stringent pharmaceutical use clean room facilities.

PM50

TOP TRACK
COVING
50MM PANEL
50mm PANEL
INTERMEDIATE ALUMINUM
ADJUSTABLE FLOOR TRACK
BOTTOM TRACK
SELF TAPE SCREW
NUT
ROD DROP

1. An intermediate aluminum, steel or plastic piece will be inserted in between 2 panels to establish strengthness.
2. Provide supreme flush surface without exposed battens or other closure pieces.
3. FLEXCON™ panel is framed with a steel or aluminum extruded section incorporating a groove to accept an interconnecting tongue forming a rigid panel to panel construction.
4. Panel surfaces withstand repeated cleaning and sanitization with various chemicals and resistant to sustaining microbial and fungal growth.
5. PM50 system incorporate with pharmaceutical application window design where glazing is mounted on the wall system to provide a completely flush surface without ledges or joints.
6. Panels are mounted on an adjustable floor track that allow recess for various materials to be coved and finished flush with the face of the clean room wall panel.
7. Cost effective and value engineering design.
8. An attractive appearance enhances the image of the facility.

I-Grid Pharma Walkable Ceiling System

I-Grid
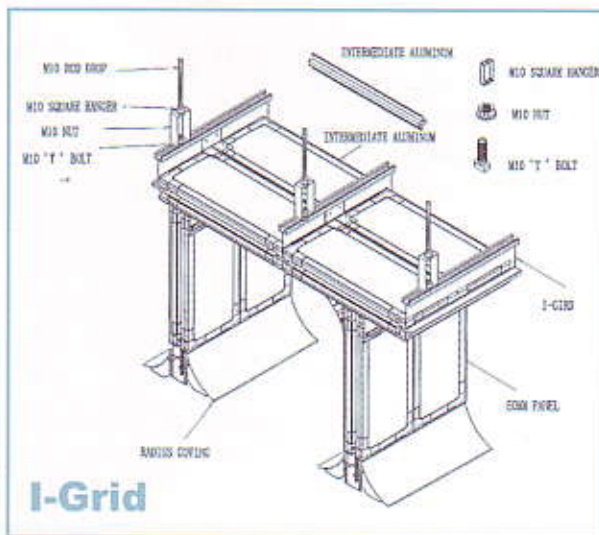
As standard pharmaceutical and biotechnological clean room requirement, the ceiling grid system must in excellent flush appearance to prevent contamination, microbial and fungal growth. Ceiling system is designed walk on capabilities for maintenance access and this can be minimized the need for catwalks above the clean room areas, reducing steel structure cost and installation time. FLEXCON™ I-Grid Pharma walkable ceiling panel is 50mm thick composite panel using steel or aluminum skin on both sides with aluminum honeycomb or rockwool as in fill core. The steel skin coating can be either static dissipative or non static finished.
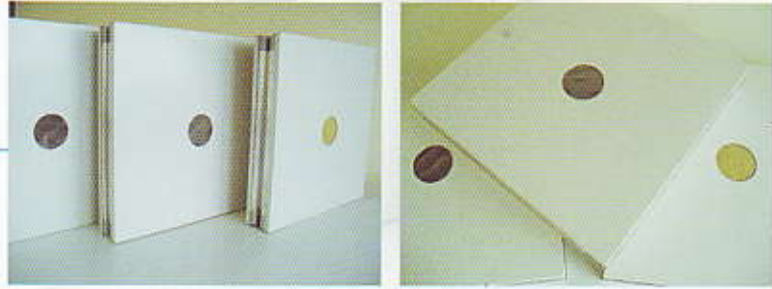
1. An intermediate aluminum piece will be inserted in between 2 ceiling panels to establish strengthness.
2. Excellent flush surface with no exposed particulate shelves.
3. Maximize the control on room pressurization and better air flow.
4. Cost effective and value engineering design
5. An attractive appearance enhances the image of the facility.

CLEAN ROOM PANEL

FLEXCON™ offers variety type of wall panels where incorporate with its partition wall systems. Rockwool core panel tend to be the priority choice for clean room that require better insulation. Aluminum honeycomb panel will be the most popular wall panel for *microelectronic fab due to its non-outgassing, non-particle* shedding and static dissipative criterias. Further, its light weight and non-combustible characteristic well accepted by the industry too. For pharmaceutical application wall panel, the most importance criteria will be withstanding repeated cleaning and sanitization toward various chemicals to resist microbial and fungal growth.

Type of Panel	Aluminum Honeycomb Panel	Pape Hone
Available Panel Thickness	7mm, 13mm,45mm	7mm,
Panel Maximum Length	5500mm	5500n
Panel Standard Width	1200mm	1200n
Skin Sheet	0.8mm Thick Aluminum Sheet 0.5mm Thick Steel Sheet	0.8mm Sheet 0.5mn
Skin Finishes	Roll Coated	Roll C
Surface Coating Material	PE,Epoxy	PE,Ep
Finish Color		
Conductivity	Static Dissipative Non Conductive	Static Non C

...comb Panel	Rockwool Panel	Gypsum Board Panel	Ceiling Steel Blank Panel
...mm,45mm	50mm	9mm and 12mm	1.2mm, 1.5mm
	4000mm	3000mm	4 bending type
	1180mm	1180mm	6 bending type 8 bending type
...hick Aluminum ...hick Steel Sheet	0.5mm Thick Steel Sheet	0.5mm Thick Steel Sheet	As Panel Thickness
...ted	Roll Coated	Roll Coated	Powder Coated
...y	PE,Epoxy	PE,Epoxy	
	FLEXCON™ custom colors		
...ssipative ...ductive	Static Dissipative Non Conductive	Static Dissipative Non Conductive	Static Dissipative Non Conductive

FLEXCON CLEAN ROOM™ CEILING GRID SYSTEMS

11

CLEAN ROOM CEILING GRID SYSTEMS

There are few value engineering design ceiling systems to suite for various markets demand. The systems including lightweight non-walkable ceiling system till heavy duty walkable ceiling system that allow frequent maintenance job. To prevent corrosion and further ensure on structure fitness, ceiling grid pieces will either powder coated or anodized finishes.

FLEXCON™ ceiling systems perfectly design for diverse applications including semiconductor, microelectronic, food service and processing industries. The systems also well engineered to use in environments within Class 100,000 to Class 1 where maximum performance and reliability are required.

FLEXCON™ Clean Room Ceiling Grid Systems Is Designed To Meet Your Most Demanding Criteria as:

1. Cost effective and value engineering design.
2. An attractive appearance enhances the image of the facility.
3. Fast, flexible and easy installation.
4. Perfect alignment and self leveling systems.
5. 100% Reusable and easy for relocation.
6. Incorporate with lighting, sprinkle head, fan filter unit, ceiling panel and other accessories.
7. Rigid and light aluminum engineering design.
8. Fast delivery and competitive cost.
9. Sealant free and demountable.
10. Suitable for clean room class 100,000 to class 1.
11. The systems available in powder coating and anodizing finishes.
12. Allow turnbuckle to be hung at any point of the grid.
13. A non-progressive and demountable ceiling system.

CK1000

Diagram labels:
- M6 ROD DROP(BY OTHERS)
- M6 NUT
- M6 SQUARE HANGER
- M6 NUT
- M6 'T' BOLT
- 'T' CONNECTOR
- '+' CROSS CONNECTOR
- GASKET
- HOLD DOWN CLIP (BY OTHER)
- CK1000L
- CK1000
- STEEL SHEET BLANK PANEL
- CK1000

CK1000 LIGHTWEIGHT NON-WALKABLE CEILING SYSTEM

Features and Advantages

CK1000 Lightweight System an ideal non-walkable economical and cost effective clean room ceiling grid system.

CK2000 HEAVY DUTY WALKABLE CEILING SYSTEM

Features and Advantages

A most comprehensive heavy duty clean room ceiling solution within the industry. It is designed for load carrying such as live and dead load, utility racking and materials handling system. CK2000 suitable for clean room up to class 1.Filter installation and replacement can be from upward (bottom load) as optional.

CK2000

Diagram labels:
- M10 ROD DROP
- 3/8 SCREW
- M10 NUT
- M10 'T' BOLT
- M10 ROD DROP
- 3/8 SCREW
- 3/8 SCREW
- M10 ROD DROP
- CK2000
- CK2000
- M10 NUT
- M10 'T' BOLT
- SQUARE HANGER
- M10 NUT
- M10 'T' BOLT
- CK2000
- '+' CONNECTOR
- 3/8 SCREW
- M10 ROD DROP
- CK2000
- 1200mm
- M10 'T' BOLT
- M10 NUT
- SQUARE HANGER
- 1200mm
- 'T' CONNECTOR

CK2000S

Diagram labels:
- M10 ROD DROP
- M10 NUT
- M10 'T' BOLT
- M10 NUT
- M10 'T' BOLT
- M10 ROD DROP
- M10 NUT
- M10 'T' BOLT
- CEILING GRID
- M10 'T' BOLT
- M10 NUT
- M10 ROD DROP
- M10 NUT
- M10 'T' BOLT
- CEILING GRID
- M10 ROD DROP
- M10 'T' BOLT
- M10 NUT
- '+' CONNECTOR
- CEILING GRID
- M10 NUT
- M10 'T' BOLT
- M10 NUT
- 'T' CONNECTOR
- M10 'T' BOLT
- 1200mm
- 600mm
- 1200mm
- 'T' CONNECTOR

CK2000S HEAVY DUTY WALKABLE CEILING SYSTEM

Features and Advantages

A similar system to CK2000 but with more economical connection method and suitable for clean room up to class 100.

CK5000

Labels on diagram: M10 ROD DROP(BY OTHER), M10 NUT, M10 SQUARE HANGER, M10 'T' BOLT, M10 NUT, M10 'T' BOLT, 'T' CONNECTOR, M10 NUT, 'C' 'T' BOLT, DIFFUSER, 'X' CROSS CONNECTOR, CK5000

CK5000 FLUSH GRID WALKABLE CEILING SYSTEM
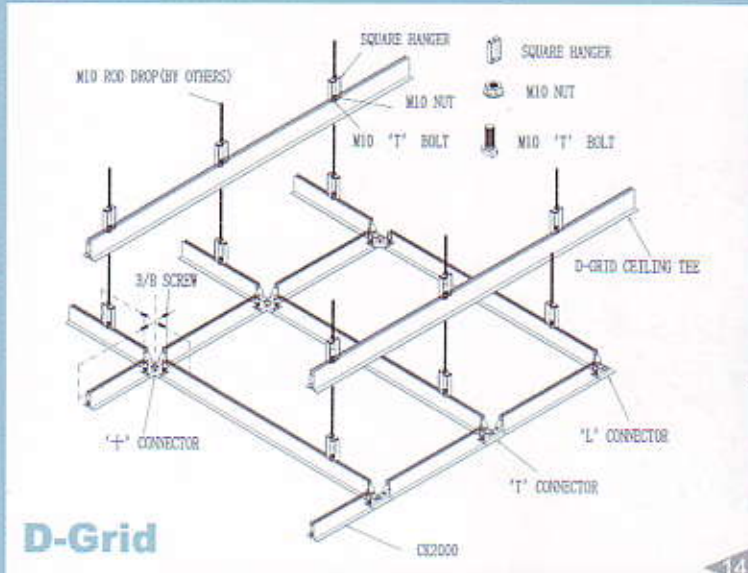
Features and Advantages

A special design allow lighting set to be installed inside CK5000 aluminum profile and cover with aryclic or prlycarbonate diffuser to provide perfect flush ceiling surface.

D-GRID PLENUM WALKABLE CEILING SYSTEM

Features and Advantages

This is a system for plenum covering purpose and provide loading support for secondary ceiling grid system. The system come with walkable plenum ceiling panel.

D-Grid

Labels on diagram: M10 ROD DROP(BY OTHERS), SQUARE HANGER, SQUARE HANGER, M10 NUT, M10 NUT, M10 'T' BOLT, M10 'T' BOLT, 3/8 SCREW, D-GRID CEILING TEE, '+' CONNECTOR, 'L' CONNECTOR, 'T' CONNECTOR, CK2000

T-Grid

Labels on diagram: M10 ROD DROP(BY OTHER), M10 NUT, SQUARE HANGER, M10 'T' BOLT, L ANGLE, CEILING PANEL, T-GRID CEILING TEE

T-GRID PLENUM WALKABLE CEILING SYSTEM

Features and Advantages

This is an ideal ceiling system for clean room that require insulation environment and the system come with 50mm thick rock wool walkable ceiling panel.
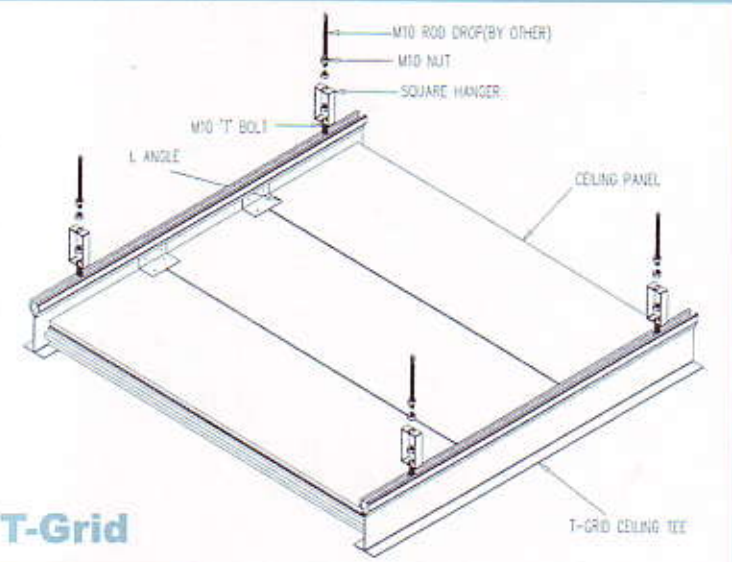
Quality Policy

"QUALITY " is the ultimate factor for success in every level of business and life. FLEXCON™ chooses to maintain to be respectable in its quality standard to fulfil our responsibilities and objectives.

FLEXCON™ and its employees are committed to comply with requirement and continue improve the effectiveness of the Quality Management System in ensuring total product satisfaction. The industry will benefit from our product quality as a whole.

FLEXCON
CLEANROOM SYSTEMS

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