



***FLEXI***  
*ACCESS FLOOR*



**Floors that support  
today's business environment**

The most critical factor realized by companies in current workspaces is the flexibility to adapt to changes that are driven by technological evolution, and, accordingly design workspaces that can forestall obsolescence. In fact, today, the greatest challenge in space management is to make working environments **Aesthetic, Efficient & Technologically advanced.**

This is where we AET Building Products (WI) Pvt. Ltd. come in. In our stride to make workplaces ergonomic, we aim to provide our esteemed clients with a complete package of Solutions for the Raised Flooring Environment.

Our Managing Director Mr. Mustufa Rasiwala, has been a pioneer in the Raised Access Floor and Airflow Management industries for nearly 3 decades now. Under his expert tutelage, AET Building Products (WI) Pvt. Ltd., has come a long way since inception in 2009 and has cumulatively catered to more than 10 million square feet of workspaces with great success.

## Manage Your Space Effectively

Raised Access Floor Systems are the key to flexibility in today's workplaces. The plenum beneath the floor can support and facilitate provision of utilities for the present and also enables adding-on in the future as and when required by the organization. In view of the ever changing work flow and employee / technology related needs, Raised Flooring Systems facilitate a hassle-free transition.

Our brand, FLEXI is primarily a steel-cementitious system with a variety of top surface finishes available. The standard size is 600mm X 600mm and the panels consist of flat steel top sheet spot-welded to an embossed steel bottom sheet, which is later injected with a lightweight cementitious mixture that solidifies post curing. Thoughtfully designed hemispherical cones on the bottom sheet of the panel enhance mechanical strength and deliver ultimate durability to the system. Our understructure has a sturdy design and ensures that the entire system, once installed, is completely free of any acoustic disturbances.

FLEXI systems are available in 4 different performance grades with an option of Bare, High Pressure Laminated (HPL), Vinyl, Wooden and Vitrified Finishes.

# Raised Floor



## Manage Your **SPACE** Effectively

### Manufacturing Facility:

We are end-to-end indigenous manufacturers of Raised Flooring Systems. Our manufacturing setup in Ahmedabad is spread over an area of 60,000 sq.ft. and caters to about 3 million sq.ft. of workspace all over India per annum. Our R&D team has a cumulative experience of more than 40 years in this industry and is constantly pushing themselves to provide an upgraded product from time to time.

It is our constant endeavor to ensure the performance standards of our systems are maintained by assuring premium product quality

FLEXI has complete Compliance to Global Raised Flooring Standards and Industry norms

- Masterspecs (USA)
- CISCA International Standards of Testing
- European Standard -EN 12825
- UK Standard -MOBPF2PS

Higher finished floor height systems of up to 1500 mm are also available



### Manufacturing Unit



Press Shop



Pretreatment



Powder Coating



Batching Plant



Cement Filling



Lamination



# Raised Floor



PATENT PENDING

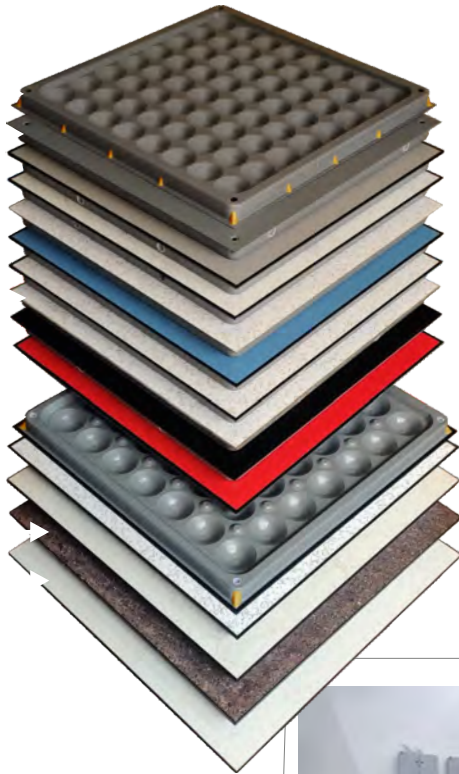
FLEXI-6416  
FOLDED GUSSETS  
BARE TILE

PATENT PENDING

FLEXI-4936 G  
FOLDED GUSSETS  
LAMINATED TILE

PATENT PENDING

FLEXI STONETOP  
PANELS PATENTED  
TECHNOLOGY 100%  
ADHESION WITH  
STEEL AND  
CONCRETE

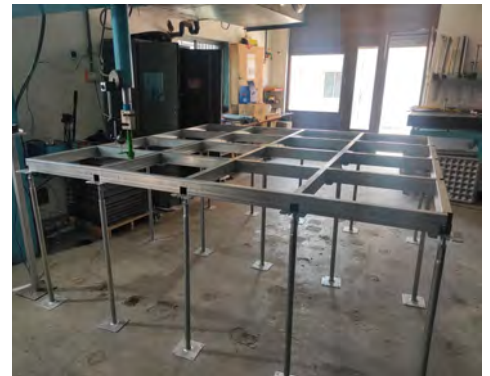
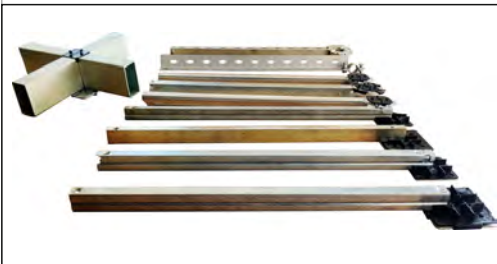


## Wide range of Finished Floor Height



## 1200 mm X 1200 mm Grid HPL Raised Access Flooring

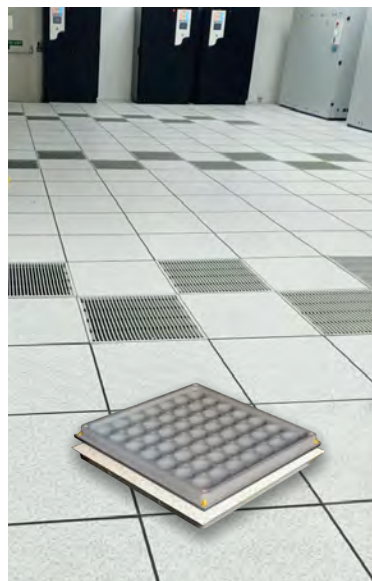
### Stringers



### Bare Flooring



### Laminated Flooring



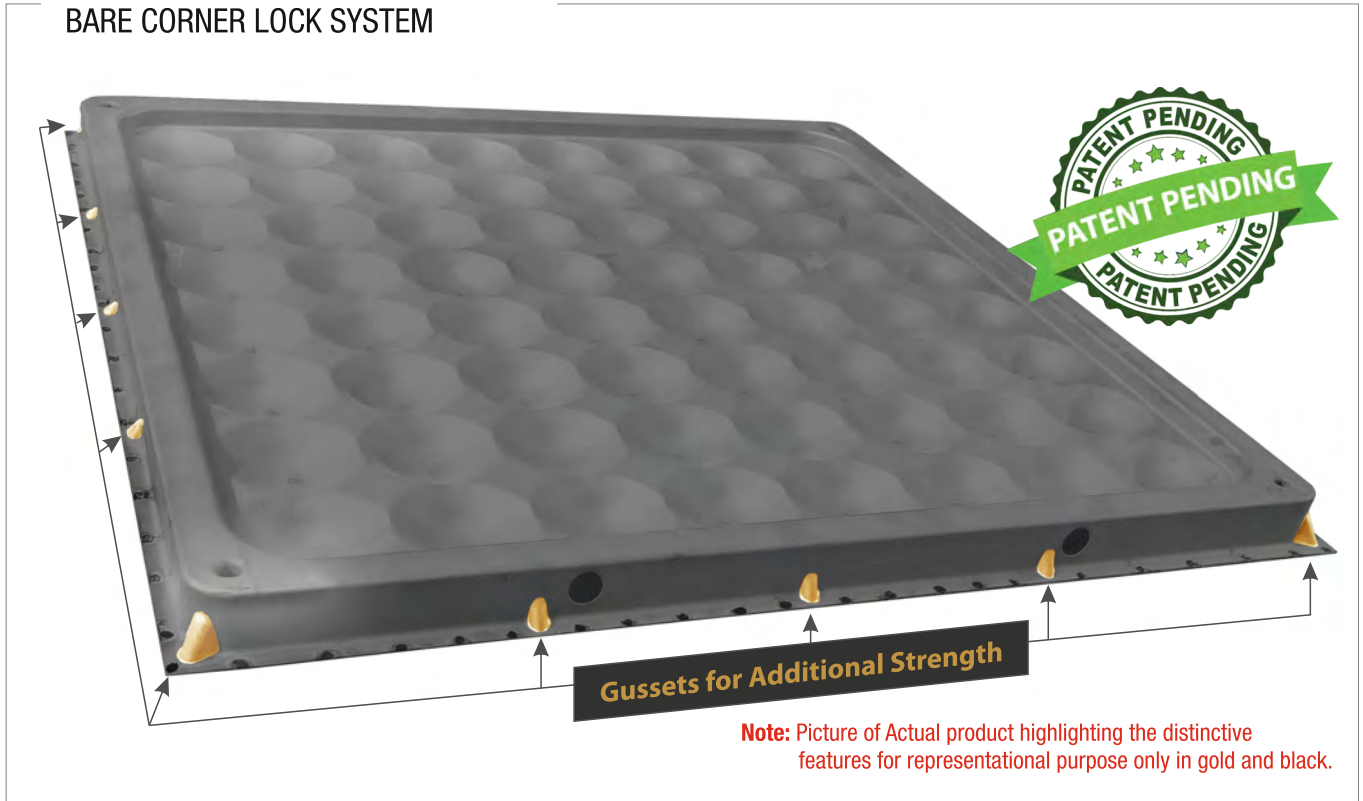
### STONETOP Flooring



# Raised Floor



## FLEXI-6416 FOLDED GUSSETS BARE CORNER LOCK SYSTEM

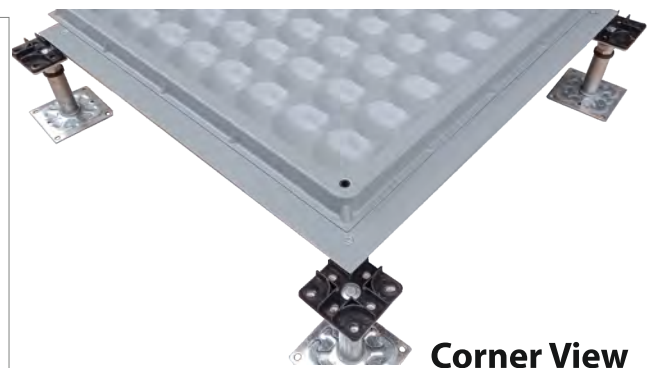


Flexi Genuinely undisputable 800 lbf/1000 lbf access floor panels having dimensions of 600 x 600 mm are an all steel welded construction with an enclosed bottom pan of 64 hemispherical cones. The top plain sheet is fuse welded to the bottom pan at 144 locations to form a hollow panel. The panel after required pre-treatment is coated with 60 - 80 micron epoxy paint and heated to achieve maximum adhesion to the panel surface for resistance to corrosion. The inner empty core of the panel is injected with a light weight, non-combustible cementitious compound at high pressure to fill in all the crevices of the panel and ensure support of over 90% of the top surface area of the panel. Panels are capable of withstanding specified point load (lbf) tested as per CISCA testing procedures and conforming to Masterspecs Section 096900.

The panel has locator holes on all 4 corners, to bolt the panel to the substructure to form a rigid monolithic smooth levelled floor. Perimeter flanges of the bottom pan are provided with 16 gussets which also get filled with light weight concrete to enhance structural strength and provide rigidity to perimeter flanges of the panel and hence to the system too. Adding gussets does not hinder the process of die cut trimming of the panels, which was also the case in our old generation models.

### SALIENT FEATURES OF DIE CUT TRIMMING

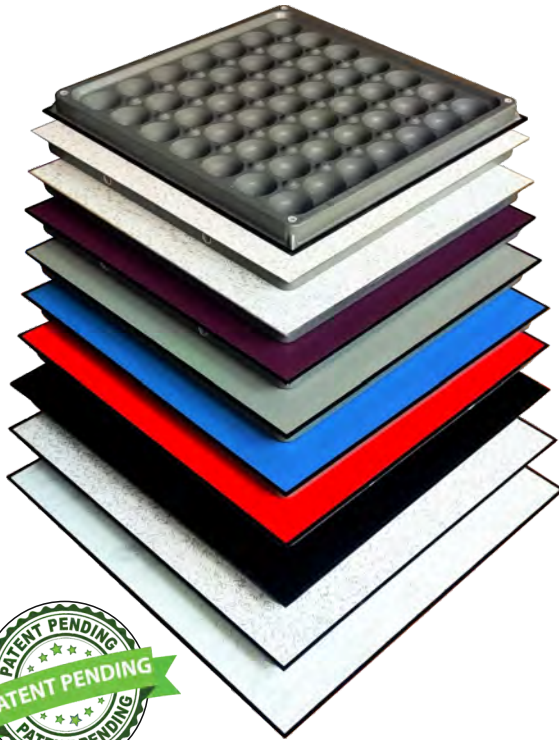
- 1) Allows additional 60 nos. of resistance welding spots to the panel totalling to 144 nos. of spot welds in the hollow panel, the composite panel now is far more rigid than the earlier version having only 64 spots.
- 2) Allows better corrosion protection to the edges of the panel in comparison to hemmed, seamed or curled edged panels.
- 3) Allows consistent gap between adjacent installed panels enhancing aesthetics (no creases in the carpet) while also ensuring lesser air leakages when used for UFAD.



# Raised Floor



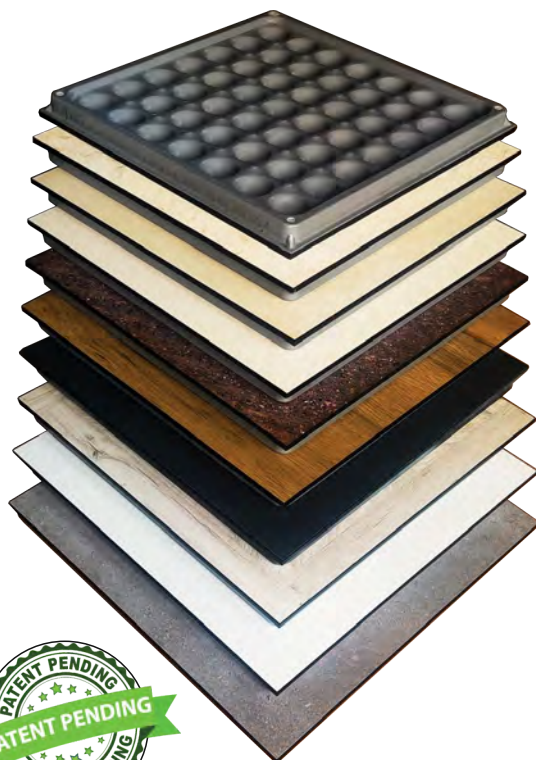
## FLEXI-4936 G FOLDED GUSSETS LAMINATED TILE



Flexi Genuinely undisputable 800/1000/1250/1500 access floor panels having dimensions of 600 x 600 mm are an all steel welded construction with an enclosed bottom pan of 49 nos. hemispherical cones and 36 nos. of reverse cones. The top plain sheet is fuse welded to the bottom pan at 117 locations to form a hollow panel. The panel after required pre-treatment is coated with 60 - 80 micron epoxy paint and heated to achieve maximum adhesion to the panel surface for resistance to corrosion. The inner empty core of the panel is injected with a light weight, non-combustible cementitious compound at high pressure to fill in all the crevices of the panel and ensure support of over 90% of the top surface area of the panel. Panels are capable of withstanding specified point load (lbf) tested as per CISCA testing procedures and conforming to Masterspecs Section 096900.

The panels are simply supported to the understructure formed by 600X600 Grid consisting of the required height of pedestals and required stringers. The formed grid will receive laminated tile which is simply supported to form a rigid smooth levelled floor. Perimeter flanges of the bottom pan are provided with 4 gussets which also gets filled with light weight concrete to enhance structural strength and provide rigidity to four corners of panel and hence to the system too. Adding gussets does not hinder the process of die cut trimming of the panels, which was also the case in our old generation models.

## FLEXI STONETOP PANELS PATENTED TECHNOLOGY 100% ADHESION WITH STEEL AND CONCRETE



Flexi Genuinely undisputable 1250/1500 access floor panels having dimensions of 600 x 600 mm are an all steel welded construction with an enclosed bottom pan of 49 nos. hemispherical cones and 36 nos. of reverse cones. The top perforated sheet is fuse welded to the bottom pan at 117 locations to form a hollow panel. The panel after required pre-treatment is coated with 60 - 80 micron epoxy paint and heated to achieve maximum adhesion to the panel surface for resistance to corrosion. The inner empty core of the panel is injected with a light weight, non-combustible cementitious compound at high pressure to fill in all the crevices of the panel and the ensure support of over 100% of the STONETOP surface area of the panel with glue and cement slurry. Panels are capable of withstanding specified point load (lbf) tested as per CISCA testing procedures and conforming to Masterspecs Section 096900.

The panels are simply supported to the understructure formed by 600X600 Grid consisting of the required height of pedestals and required stringers. The formed grid will receive laminated tile which is simply supported to form a rigid smooth levelled floor. Perimeter flanges of the bottom pan are provided with 4 gussets which also gets filled with light weight concrete to enhance structural strength and provide rigidity to four corners of panel and hence to the system too. Adding gussets does not hinder the process of die cut trimming of the panels, which was also the case in our old generation models.

# FLEXI ACCESS FLOOR - SYSTEM SELECTION GUIDE

## PANEL DIMENSION: 600 X 600 MM

### FLEXI STEEL CEMENTITIOUS SYSTEMS



GRADE	SYSTEM	CONCENTRATED LOAD IN KG @ 2.54 mm. DEFLECTION		ULTIMATE CONCENTRATED LOAD IN KG		UNIFORM DISTRIBUTED LOAD WITH PNEUMATIC BAG		ROLLING LOAD TEST AS PER MASTERSPEC IN KG (LBF) (Overall Deformation Not to exceed 1.02 mm)		
		MASTERSPECS 2015 NORM IN KGS (LBF)	FLEXI RESULT IN KGS (LBF)	MASTERSPECS 2015 NORM IN KGS(LBF)	FLEXI RESULT IN KGS (LBF)	MASTERSPECS 2015 NORM IN KGS/SQ METER	FLEXI RESULT IN KGS/ SQMT @ 1.02 mm DEFLECTION	FLEXI RESULT 10000 PASSES IN KGS (LBF)	FLEXI RESULT 10 PASSES IN KGS (LBF)	
1	FLEXI - 0800 BARE	CORNER LOCK (CL) & BOLTED STRINGER (BS)	363 (0800)	427 (941)	905 (2000)	1099 (2418)	880 Kgs/Sq meter*	1942 Kgs/Sq meter	190 (420)	240 (528)
2	FLEXI - 1000 BARE	CORNER LOCK (CL)	454 (1000)	490 (1080)	1135 (2500)	1268 (2790)	1220 Kgs/Sq meter	2158 Kgs/Sq meter	245 (500)	300 (660)
1	FLEXI - 0800 HPL	BOLTED STRINGER (BS)	363 (0800)	446 (983)	905 (2000)	1256 (2773)	880 Kgs/Sq meter*	2194 Kgs/Sq meter	190 (420)	240 (528)
2	FLEXI - 1000 HPL	BOLTED STRINGER (BS)	454 (1000)	515 (1135)	1135 (2500)	1494 (3287)	1220 Kgs/Sq meter	2739 Kgs/Sq meter	245 (500)	300 (660)
3	FLEXI - 1250 HPL	BOLTED STRINGER (BS)	568 (1250)	621 (1369)	1418 (3120)	1822 (4008)	1464 Kgs/Sq meter	3356 Kgs/Sq meter	290 (640)	410 (902)
4	FLEXI - 1500 HPL	BOLTED STRINGER (BS)	682 (1500)	741 (1633)	1705 (3751)	2316 (5095)	1952 Kgs/Sq meter	4033 Kgs/Sq meter	362 (796)	490 (1078)
1	FLEXI -1250 VITRIFIED (STONETOP)	BOLTED STRINGER (BS)	568 (1250)	606 (1335)	-	-	1464 Kgs/Sq meter	2658 Kgs/Sq meter	270 (600)	345 (759)
2	FLEXI -1500 VITRIFIED (STONETOP)	BOLTED STRINGER (BS)	682 (1500)	713 (1571)	-	-	1952 Kgs/Sq meter	2930 Kgs/Sq meter	315 (693)	430 (946)

NOTE : " \* " MASTERSPEC NORMS INTERPOLATED

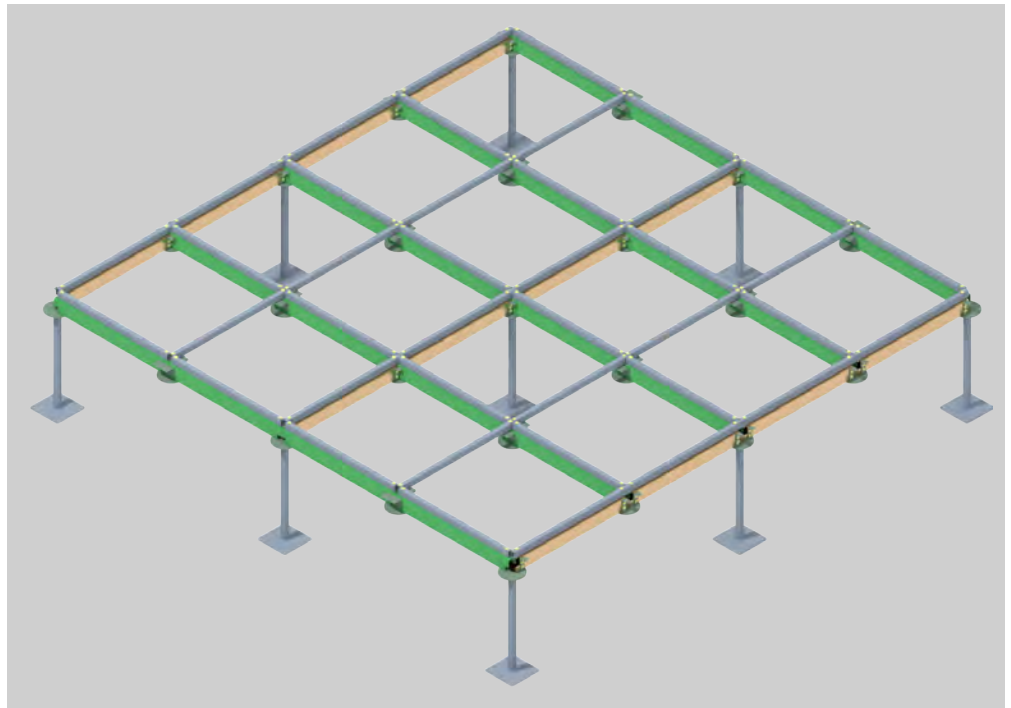
## RESEARCH & DEVELOPMENT



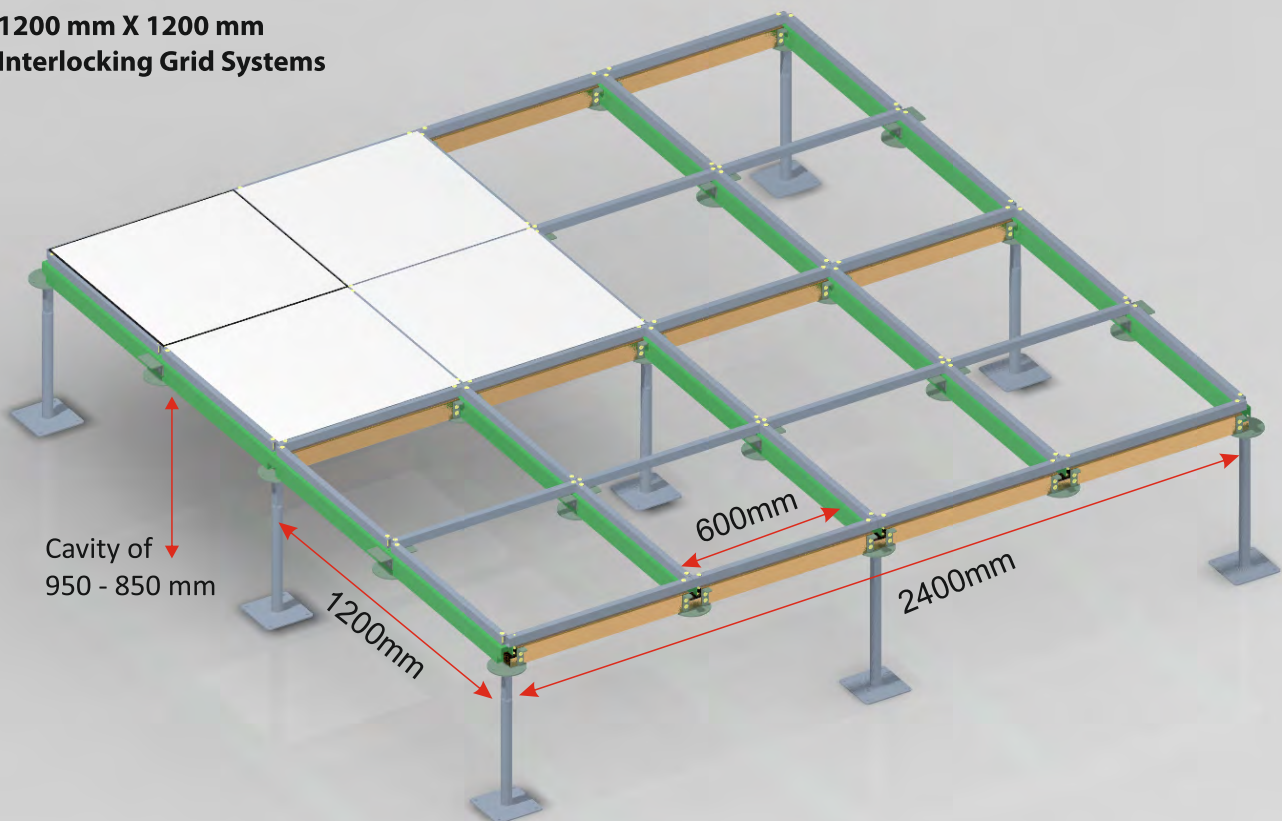
We are of the firm belief that we need to keep up with the pace of the dynamic changes due to technological advancement in all industries whether Banking/ Financial/ Manufacturing.

FLEXI ACCESS FLOORS takes a comprehensive approach, based on International Standards and Upgrades, to be abreast with the latest technologies in the world. All our products and processes are continuously monitored, studied, inspected and improved upon on a regular basis.

# 1200 mm X 1200 mm Pedestal Grid Interlocking Systems for Steel Cementitious Tile



## 1200 mm X 1200 mm Interlocking Grid Systems

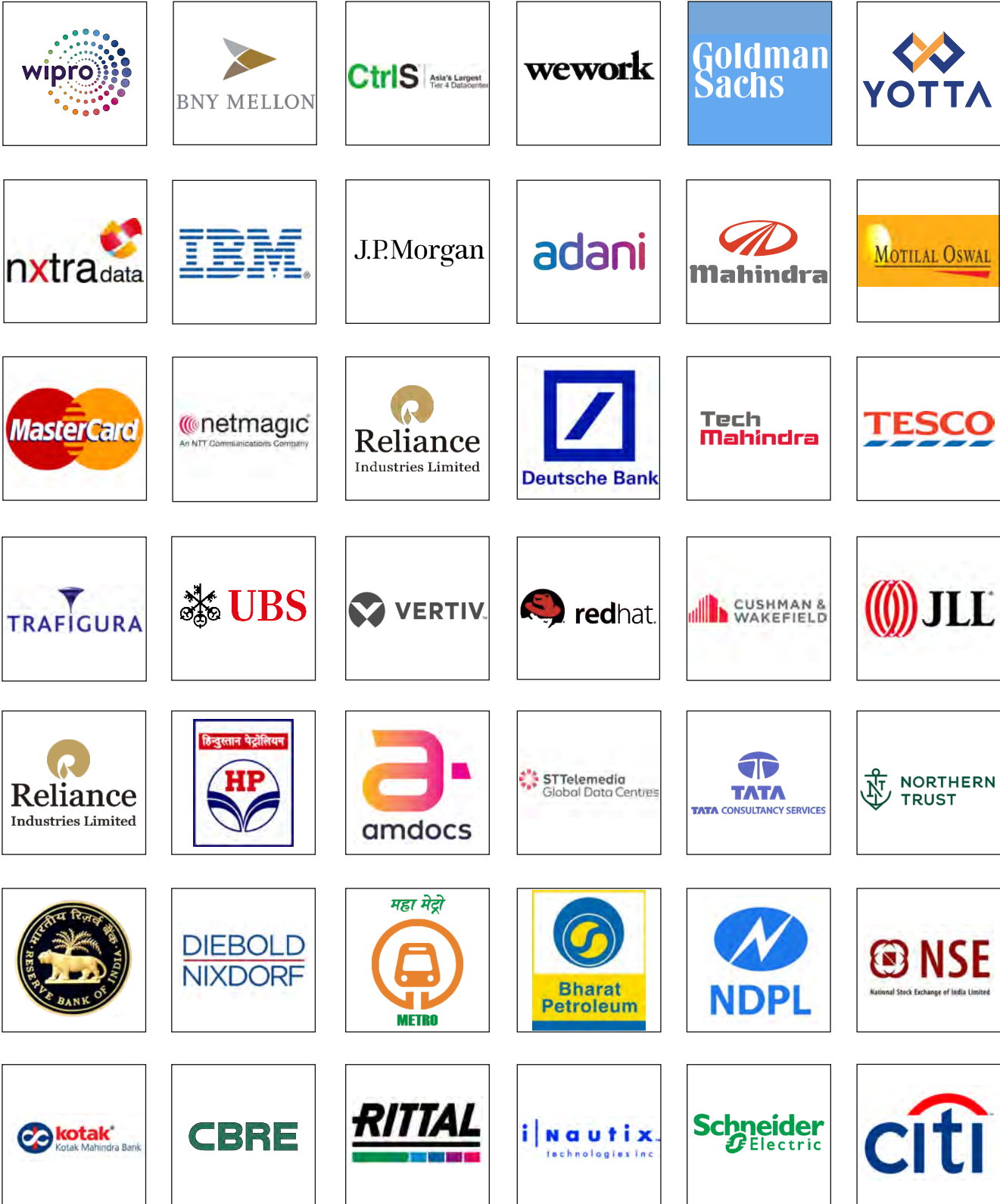


**Note**

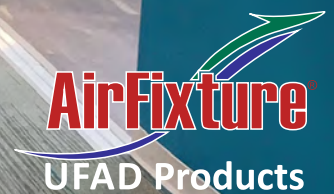
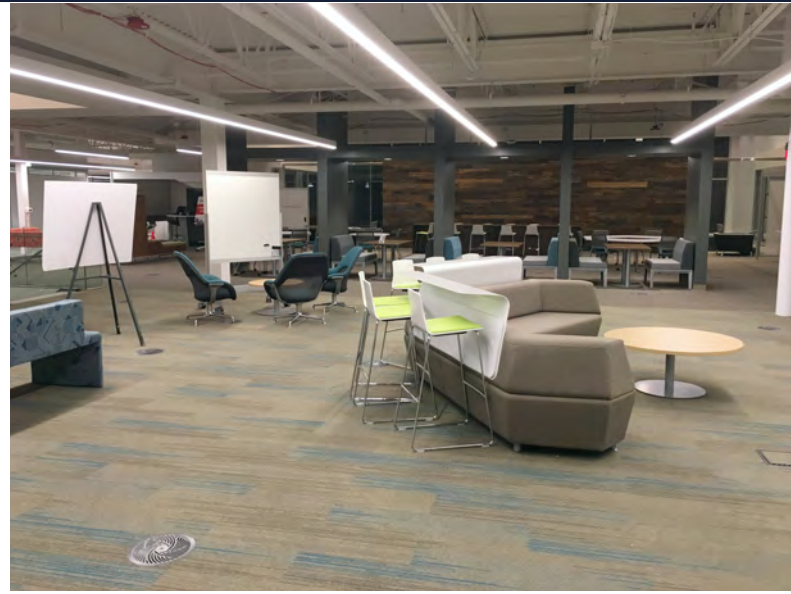
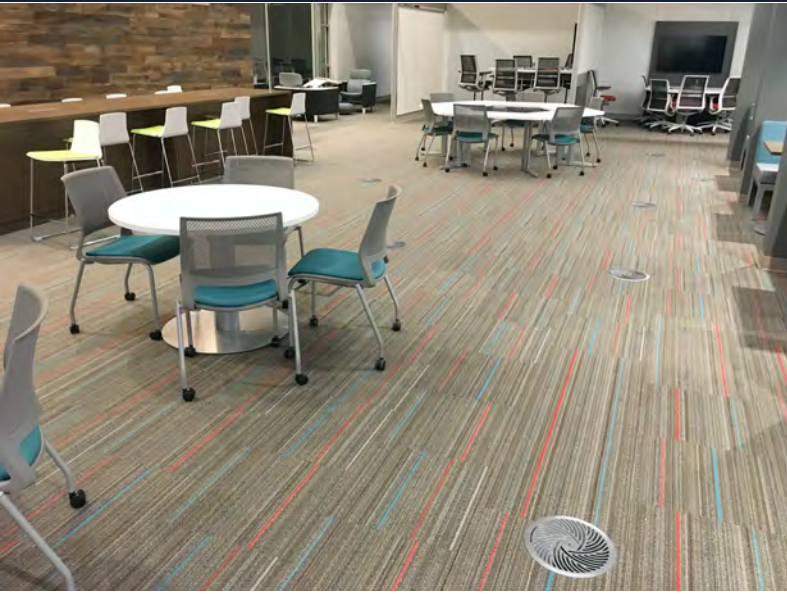
- 600 mm X 1200 mm Pedestal Grid can be given on request
- Conceptually Similar Grids can be manufactured for Constant Cross-Section RAF Tiles (CaSo4, Particle Board etc.)



## Our Clients



# AET brings AirFixture to INDIA



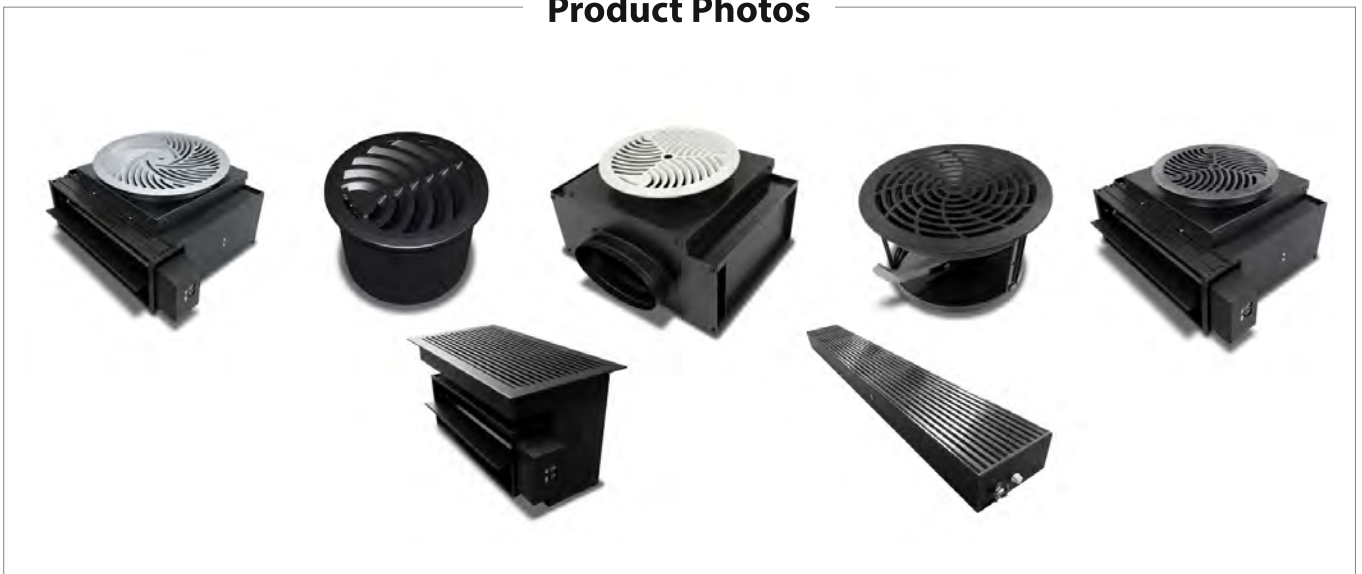
**Under Floor Air Distribution solutions.  
The next generation of UFAD technology**

# Under Floor Air Distribution

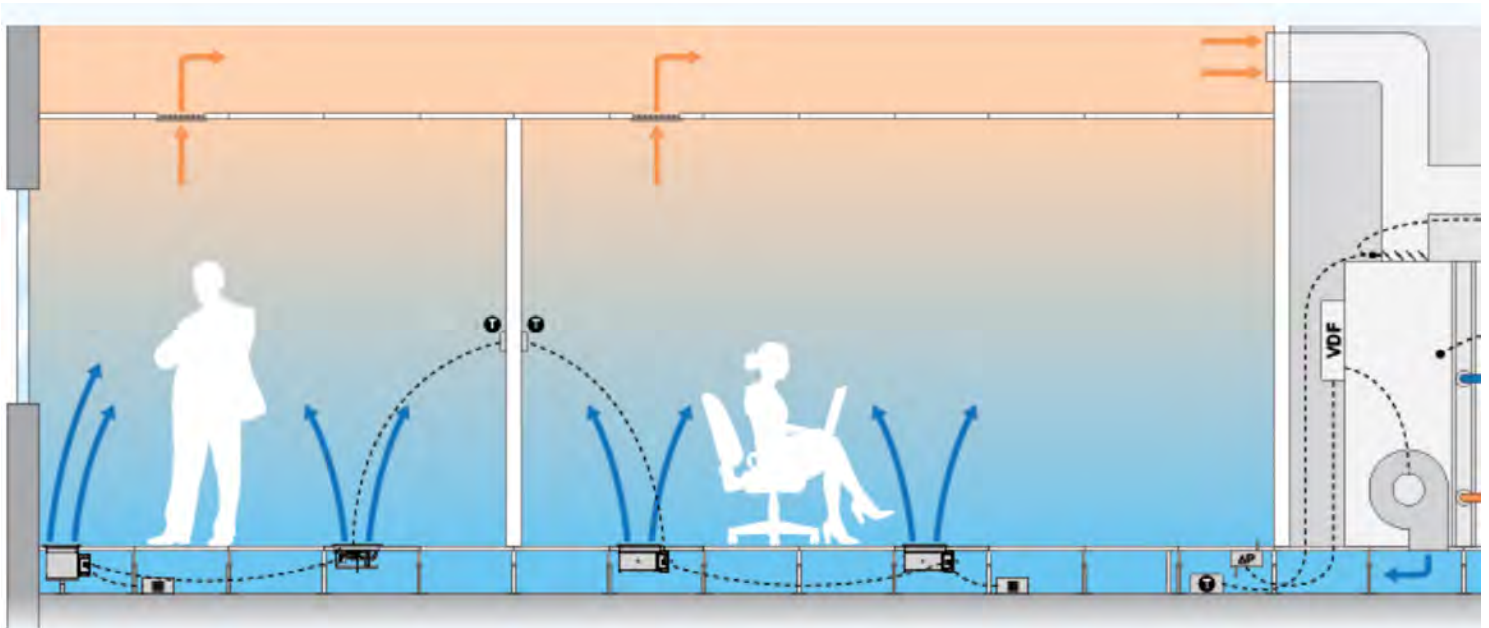


AirFixture's Underfloor Air Distribution System revolutionizes your environment with improved ventilation, air quality, and occupant productivity - all at a lower cost to operate.

## Product Photos



# Under Floor Air Distribution



## STEP UP TO BETTER AIR CONDITIONING

Improving Office Productivity in India for Over 19 Years!

### AN UNDERFLOOR AIR DISTRIBUTION SYSTEM OFFERS:

- Up to 30% lower energy usage
- Improved ventilation & air quality
- Improved office productivity
- Lower first-cost and life-cycle costs
- Easier access to building services

### AirFixture UNDERFLOOR AIR DISTRIBUTION SYSTEMS

More and more buildings today are opting to install Raised Access Floors and HVAC underfloor air distribution systems for a variety of reasons, most notably flexibility for reconfiguring the office space and cost savings. AirFixture has successfully executed several hundred UFAD projects in the last 15 years. We have experience with most types of buildings in every kind of climate. With projects and local support in more than 25 countries, we can provide system application advice to tailor the system to your particular application and budget.

Building owners, architects, engineers, contractors, and developers can all benefit significantly from AirFixture's UFAD solutions.

### TOP BENEFITS OF UNDERFLOOR AIR DISTRIBUTION:

#### FOR END USERS:

- Documented improvements in occupant comfort, productivity, and health
- Reduced energy usage
- Faster Return on Tenancy Investment
- Flexibility for relocating wiring, piping, and other building services
- Improved Ventilation Efficiency (Ez) and Indoor Air Quality
- Plug and Play system with easy usage

# Under Floor Air Distribution

## **FOR OWNERS/BUILDERS**

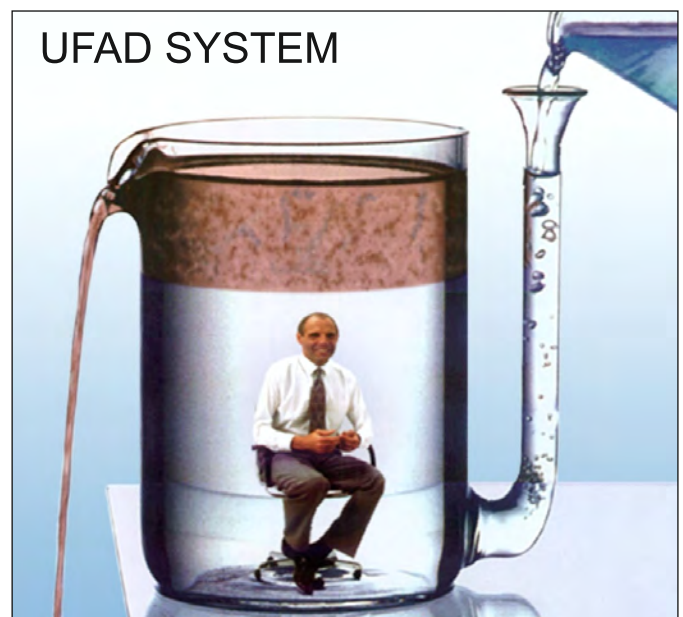
- Enhanced indoor environmental quality through superior IAQ, improved acoustics, and increased daylighting opportunities
- Cost effective LEED Certification
- Easily adapts to technological and organizational changes over the building's lifecycle at low cost
- Point-of-use services wherever you need them with complete flexibility, accessibility, and unlimited capacity
- Accelerated tax depreciation opportunities; UFAD and floor is FF&E (7 years amortized)
- Reduced first cost and construction time due to significant reduction (typically 75%) in HVAC ductwork and use of underfloor prefabricated 'plug & play' wire/cable services
- Reduced operating expenses and lower facility and maintenance costs through accessible, flexible, and adaptable services
- Reduced slab-to-slab height and facade costs

## **FOR ARCHITECTS**

- Design Flexibility – Adapts to existing or new architectural features, uneven floor
- Laminated Finishes – Applying floor finishes such as wood, stone, and linoleum in the factory saves labor and materials cost
- Voice/Data Cabling – Reduce cable run lengths; eliminate cable trays and lower labor costs at installation. Relocating cables becomes easier for a lifetime
- Power Wiring – 'Plug & Play' technology significantly reduces installation costs
- Furniture – Eliminate dependency on expensive powered furniture and improve space planning options

## **FOR ENGINEERS**

- ASHRAE 62.1 ventilation code recognizes the displacement ventilation of well-designed UFAD systems as providing 20% better ventilation effectiveness (Ez)
- UFAD can help achieve better ventilation effectiveness by supplying the air closer to the occupants
- Proximity cooling also improves personal comfort control by allowing the occupant to adjust and control their micro-climate individually



If it's **mission critical** ,  
It's got to be **DATA CLEAN**<sup>®</sup>



# Data Clean®

- Clean Rooms • Communication Facilities • Computer Rooms • Data Center • Manufacturing • R&D Laboratories
- Telecom Facilities • Video Facilities

## The High Cost of Contamination

It doesn't take much to shut down the sophisticated equipment that is the lifeblood of your business. Too much dust, too much moisture, or one incorrect procedure, and your business is out of operation for precious minutes, hours, days, or worse!

AET Flexiblespace(l) Pvt Ltd, having proficiency in Raised Floor Environment in India has collaborated with Data Clean Corporation (USA) to introduce the crucial concept of 'Deep Cleaning of Mission Critical Spaces' in India. Data Clean Corporation USA, with a global spread, has been in this business since 1979, cleaning the controlled environments of Fortune 1000 Companies, Banks, Educational & Government Institutes in LIVE conditions.

We consider ourselves a part of the world's most experienced controlled environment cleaning and remediation specialists. Our trained personnel and latest technology equip us to handle anything from routine daily maintenance to your toughest disaster response assignments.

## Services Provided By Us

- Computer Room Cleaning
- Exterior Hardware Cleaning
- Tops of Floor Cleaning
- Under floor Plenum Cleaning
- Post-Construction Cleaning
- Sub floor Sealing
- Gaseous Contamination Detection and Remediation
- Disaster Recovery Cleaning –24 X 7
- Zinc Whisker Remediation
- Server Decontamination



## Computer Room Cleaning

Whether your data center or computer room is just a closet or a mega centre, it needs to be cleaned to maintain the health of the equipment. Data Clean technicians perform three basic services separately, or in combinations that are designed to keep your computer room running at peak performance. These three services are: Exterior Hardware Cleaning, Tops of Floor Cleaning, and Underfloor Plenum Cleaning.



## **Exterior Hardware Cleaning**

Data Clean uses proven techniques to remove dirt, dust, and other contaminants from your controlled environment. Not only the ones you can see, but more importantly the hidden ones you can't see. Data Clean's trained technicians use specialized, environmentally friendly cleaning solutions - time tested for use on the materials used in the manufacture of modern technical equipment. Our HEPA filtered vacuums are certified to 0.3 microns and remove even the smallest of micro-particles from your facility.

Every possible step has been taken to guard against damage or disruption to your operation. Before a Data Clean Technician is sent to the field he must successfully complete a comprehensive training program.

## **Tops of Floor Cleaning**

Computer room flooring is designed to dissipate static electricity by providing a conductive path to ground. Dirt on top of and ground of computer flooring greatly reduces the floor's ability to dissipate static. Improper cleaning can cause your floor to delaminate or chip. Data Clean Corporation has developed specialized cleaning agents that safely remove dust and dirt from all types of tile and floor surfaces

## **Under Floor Plenum Cleaning**

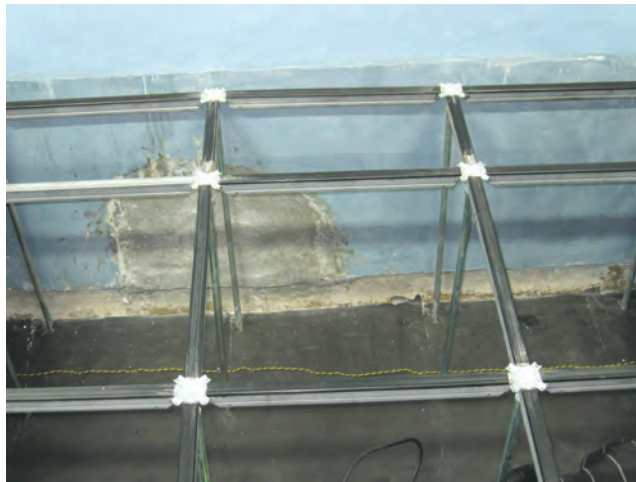
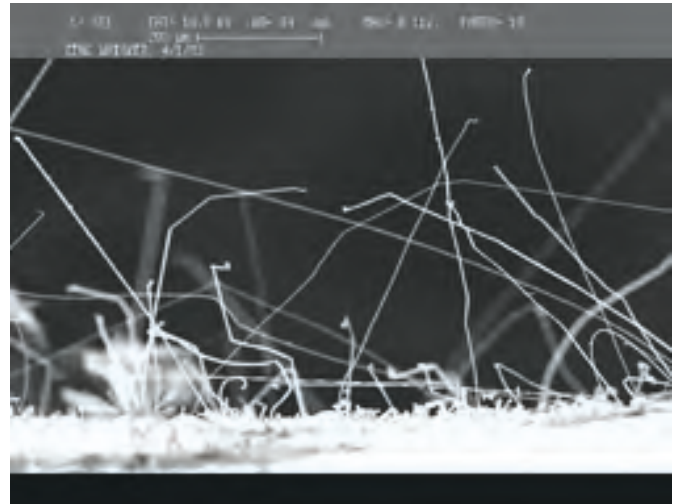
The lifeline of any computer room is the plenum beneath the raised flooring. This plenum delivers cool, filtered air to the sensitive equipment above. Unfortunately, because of gravity, the plenum is also the area most prone to dirt and dust. Allowed to accumulate, these contaminants will be swept up and carried to your equipment by the circulating air conditioning so vital to your equipment's operation. The impact of contaminated airflow includes clogged circuits, increased risk of fire, accidental fire suppressant discharge, and miscellaneous health problems. Data Clean's under floor cleaning service helps protect your equipment from these and other hazards. Our cleaning also satisfies many insurance audits, and may help reduce the cost of insurance.



## Zinc Whiskers Remediation

Zinc Whiskers are found on metal surfaces of access floor systems with zinc electroplating. The whiskers grow on the underside of the floor panels or the exposed surfaces of the structural components like stringers and pedestals. The whiskers are typically 2 microns in diameter. When the whiskers break free, they become airborne and can circulate freely and get blown into equipment.

When a whisker rests on an exposed circuit card, it could cause a short; possibly an intermittent short which is most difficult to detect and fix. Symptoms of Zinc Whisker related failures are minor data corruption, catastrophic hardware failures, high incidence of power supply failures. these problems may increase when migrating to new systems.



## Subfloor Sealing

The natural and continuous oxidation of your concrete subfloor is a major cause of controlled environment contamination.

A concrete subfloor is constantly releasing millions of tiny, abrasive particles of what is commonly called concrete dust. Those particles are swept up by the plenum airflow and inevitably deposited on your sensitive electronic equipment where they clog filters and accumulate on circuit cards.

The only way to eliminate this source of contamination is to seal the surface of the concrete. This can be achieved before, or after, the installation of your equipment. Noncorrosive, nontoxic, and non flammable sealants are used to do the job. It completely seals your concrete subfloor, eliminating oxidation.

## IAQ and Corrosive Gas Assessment & Abatement

Higher levels of corrosive gases are being detected which cause serious reliability issues with sensitive electronic equipment. Hydrogen Sulfide ( $H_2S$ ) and Sulfur Dioxide ( $SO_2$ ) are the gases of most concern as they are common and very destructive to silver solder and copper circuit boards. Highly gaseous contaminating gases i.e., Hydrogen Sulfide ( $H_2S$ ) and Sulfur Dioxide ( $SO_2$ ) are of most concern as they are common and very destructive to silver solder and copper circuit boards. We can provide solutions to mitigate the opper circuit boards. We can provide solutions to mitigate the same. We have a proven approach for identification and remediation of these corrosive gases from data center and laboratory environments. All testing complies with the ANSI / ISA International Standard as well as the recently published ASHRAE Particulate and Gaseous Contamination Guidelines for Data Com Environments.





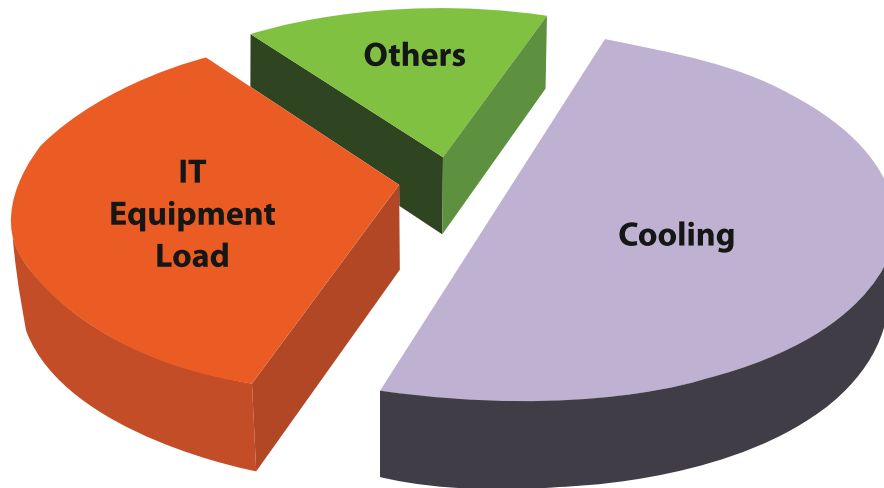
Complete  
Airflow Management  
**Solutions and Services**



# Airflow Solution

Proper Airflow Management reduces energy, frees resources and saves money

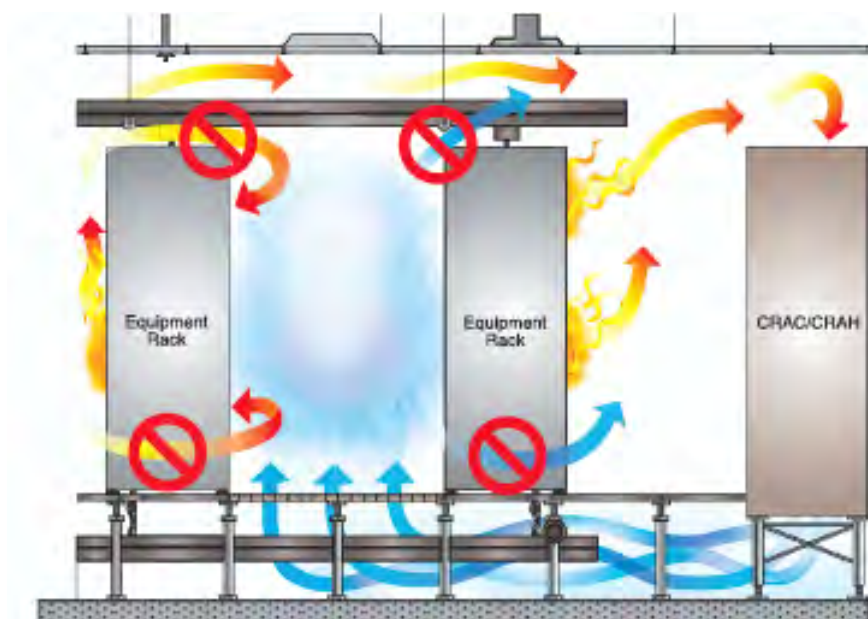
- Cooling may contribute to half of the total energy consumed in a data Center
- Cold air is wasted if not managed appropriately
- Proper isolation is critical to cooling efficiency



## Data Center Power Consumption

### Efficient Cooling

- Directs airflow through, not around IT equipment
- Prevent bypass airflow
- Eliminates hot air recirculating directly to IT equipment



# Airflow Solution

## 1. Horizontal Blanking Panels

Prevent cold air from flowing through the rack and bypassing the equipment to be cooled and also prevent hot exhaust air from recirculating back to the cold face of the rack. AET offers several types of blanking panels to accommodate every installation, configuration and budget.

## 2. Under Rack Panels

Close off the horizontal space between the floor and the bottom of cabinet. Even a 1 inch vertical gap here is a 24 square inch opening for bypass airflow

## 3. Floor Grommets

are best in class brush grommets that keeps cold air under the floor where it belongs. Data Clean offers Brush Grommets in sizes and shapes for every opening. Unmanaged floor cutouts represent one of the biggest sources of bypass airflow and a significant reduction in cooling efficiency.

## 4. Aisle Containment

is the last big step towards achieving total isolation. Data Clean offers soft wall curtain systems, hardwall systems and hybrid systems which include a combination of the two systems. Hot aisle or Cold aisle containment can easily accommodate equipment rearrangements while improving airflow management.

## 5. Passive Airflow Panels

provide additional airflow to high density equipment racks. Air Grates having upto 82% openings in the panel that virtually doubles the airflow of a standard perforated panel.

## 6. Active Airflow Panels

can be used to help cool high density racks or provide additional cooling in airflow starved areas. This active unit is positioned directly below a high airflow panel to push more air from the underfloor plenum where needed. The active airflow can be adjusted manually or via remote sensor.

## 7. Plenum Baffles

help direct conditioned air towards critical needs. Plena Form baffles are flexible, easy to cut, and easy to install. Reducing the volume of area to be cooled saves money.



# Airflow Solution

Data Clean has been serving its clients with Airflow Management services since 2002. In the beginning, the goal was implementation of the new hot aisle / cold aisle concept. Today, the goal is total isolation of the hot and cold sides of the equipment. simple in theory, implementation of total isolation can be challenging; particularly in existing facilities. Data Clean has developed the expertise to successfully guide our clients to total isolation in data centers around the globe.

The Data Clean Airflow Management Service is your choice for low cost, high impact solutions

- Measure conditions and capacities
- Model Solution technology
- Design Solutions
- Model Solution financials
- Implement & Install



Data Clean understand that the path to total isolation is as varied as individual data center facilities. Our services are designed to meet your needs.

## Reach Your Goals with Data Clean

- Eliminate bypass airflow
- Raise set points
- Lower PUE
- Eliminate Hot Spots
- Support Higher Density Installations
- Reduce Cost



Under Floor Cable Management

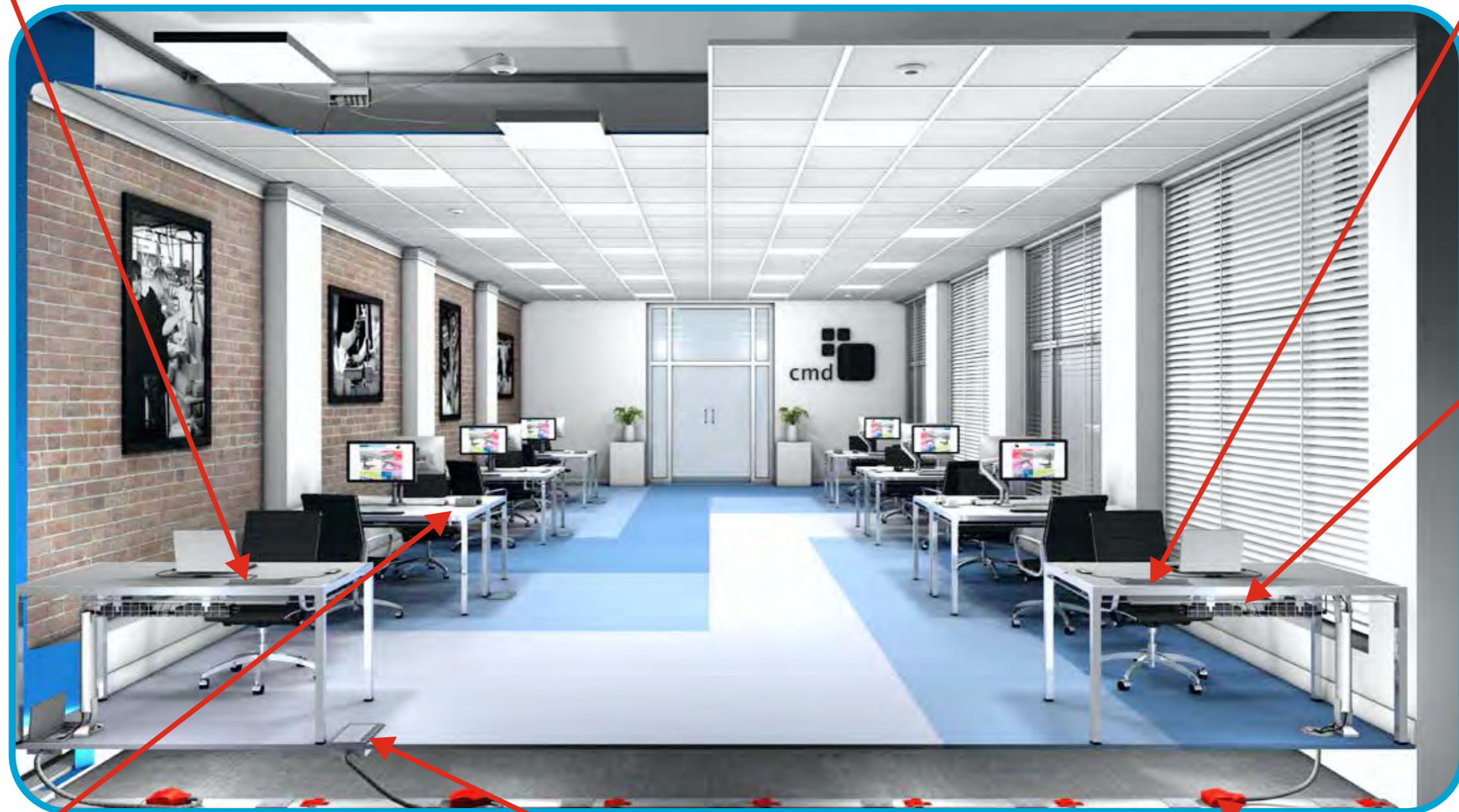
# Product Range



Under Desk Power Module



In Desk Power Module



Energy Management

On Desk Power Module



Access Power



Power Distribution





**AET** Building Products (WI) Pvt. Ltd.  
Flexiblespace (I) Pvt. Ltd.



*Proficiency in Raised Floor Environment*

*ISO 9001:2015 Certified*



#### Head Office

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● Tel: +91-022-40151373 ● Email: info@flexiblespace.in ● Web: www.flexiblespace.in

#### Manufacturing Facilities Of AET Building Products

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● Tel. : +91-2717251797