

# Thrislington

# SYNERGY THRISLINGTON



## TURNKEY PROJECTS

- HVAC / BMS / HVAC ELECTRICAL
- Modular Clean Room Partitions
- Flush Clean Room Doors
- Steel Fire Rated/Non Fire Rated Doors
- Flush Brick Wall Windows
- Walkable / Non Walkable Ceiling
- Lab Furniture / Lab Partitions
- Anti-Vibration Table





Thrislington

# INTRODUCTION

Thrislington Products Company Limited, UK excelling in various kinds of doors and partitions since 1946 was taken over by the Synergy group in 2009. With this acquisition entire plant & machinery, products know-how and all other intellectual property has come from UK to India at Synergy Thrislington.

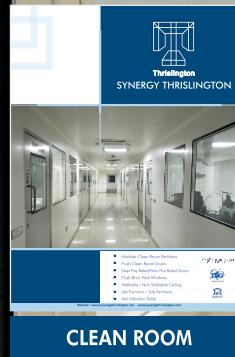
Its state-of-the-art plant is located at Nalagarh Tehsil of District Solon; Himachal Pradesh in India. The well laid out facility is spread over 4.5 acre land with the covered area of 85,000 Sq. feet

Strength of the company arises out of its team of professionals, product know-how and inbuilt culture of customer care and delivery commitment.

Synergy Thrislington, an ISO - 9001:2008 certified company today serves varied paneling and door requirements of educational institutions, corporate offices, shopping malls, high rise building, pharmaceutical, healthcare, hospitality, labour accommodation, site offices, cold room/cold storage and prefabricated demountable shelters for different industries etc.



## PRODUCT RANGE



CLEAN ROOM



METAL DOORS



HVAC / BMS / HVAC ELECTRICAL

## OUR CORE STRENGTHS



# CLEANROOM

The interpretation of a cleanroom can vary from industry to industry and customer to customer, with each application being designed to suit the idiosyncratic needs of a company.

It may be that your process facility needs a simple 'clean up' or a radical transformation to accommodate the stringent manufacturing and production standards dictated by the statutory authorities responsible for ensuring Good Manufacturing Practice (GMP) for your particular industry. For nearly 6 decades, Thrislington has worked alongside designers, end users and specialist contractors to ensure that the most economical and practical solution is achieved.

A recognized definition of a cleanroom is "A room in which the concentration of airborne particles is controlled and which contains one or more clean zones."





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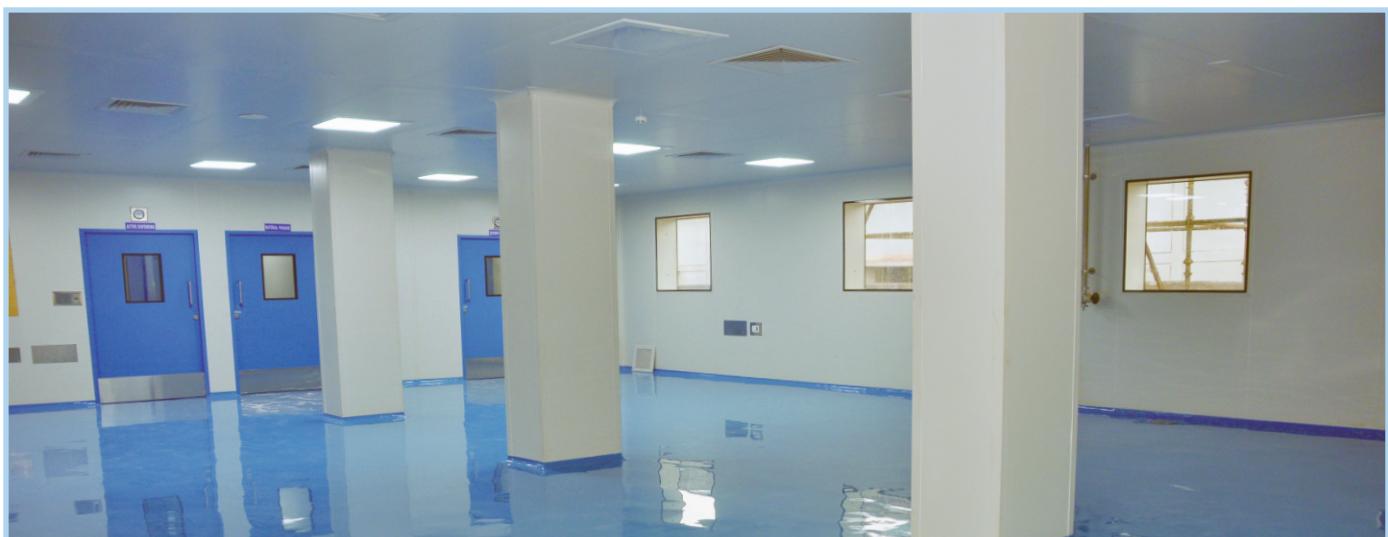
# CLEANROOM

## CONTROLLED ENVIRONMENT

An ever increasing number of companies require a facility to provide an environment which enables the control of their process, particularly important for today's healthcare, drug & medicine manufacturing, telecommunication, netscape, defence, food processing, electronics and automotive industries.

## CLASSIFIED

Classified cleanrooms are very familiar to the pharmaceutical, electronic, semi-conductor and wafer-fab industries, ranging from Class 100,000 up to Class 1 and are determined by the operation of the particular room or process. Cleanrooms are classified on the basis of the cleanliness of their air. The method most easily understood and most universally applied is the one suggested in the earlier versions (A-D) of the Federal Standards 209 of the USA. In this the number of particles of 0.5 microns or more are measured in one cubic foot of air and this count is used to classify the room.



# FOR GUIDANCE

- Class 1 and 10 (the highest specification) are generally used for integrated circuit and semi-conductor manufacturing.
- Class 100 (BS. 5295 equivalent classification E and F) are often used by the electronics industry along with some applications within pharmaceuticals facilities.
- Class 1,000 to 10,000 are used by manufacturers of the highest specifications fibre optics, precision engineering, sterile packaging and pharmaceutical manufacturing.
- Class 100,000 is adequate for general component assembly and packaging.





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# CLEANROOM CEILING

The ceiling membrane is of vital importance to the integrity and performance of any cleanroom. The concept of ceiling can vary from simple suspended lay-in grid types to sophisticated 'walk on' construction plenums.

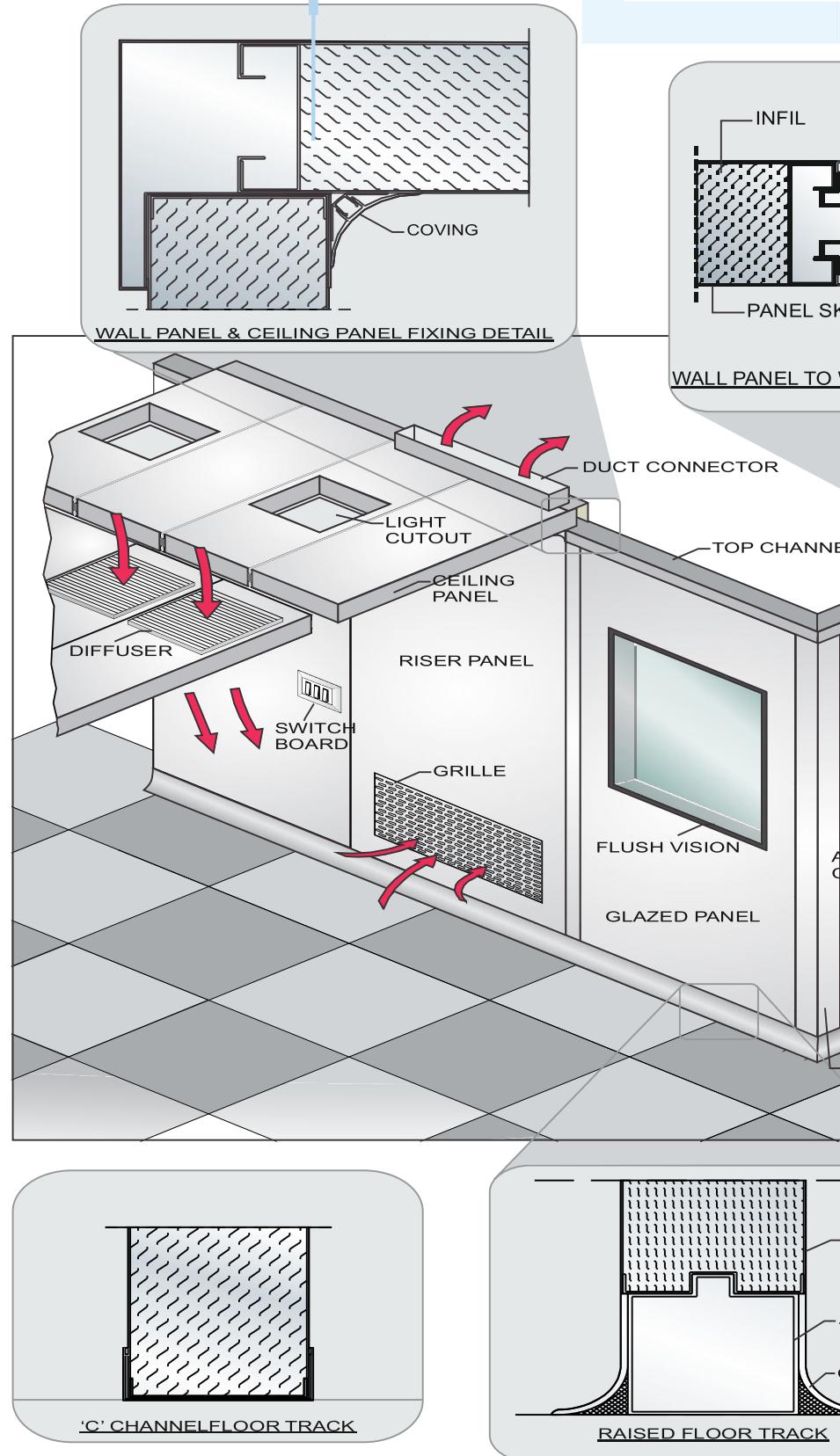
The Thrislington 'Walk on Ceiling' is a product that offers amazing options in creating custom and system build solutions to the most complicated of enclosures for the demanding environments of the cleanroom user.

A maintenance engineer can walk on top of the ceiling to gain access to services and components with-out the need to engage elaborate equipment normally associated with more basic ceiling installations and the servicing thereof.

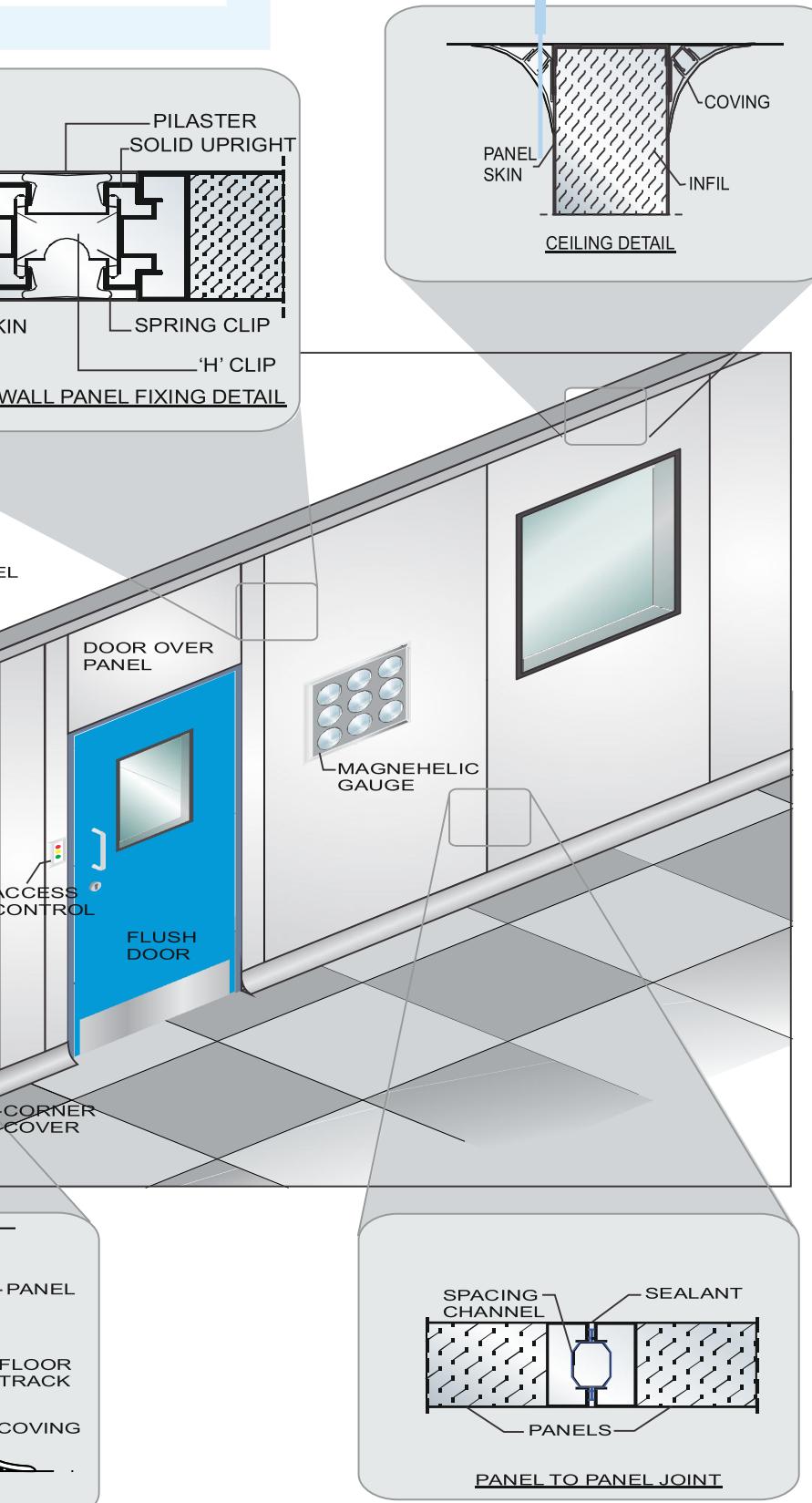
Panels are constructed to standard width of 947 mm/1197 mm with thickness of 50mm/60mm/80mm and the ceiling system is supported either on the partitions or by a lattice truss system to create spans not normally associated with partitions and ceiling enclosures. The steelwork is also designed, manufactured and installed by Thrislington. Structural mezzanine floor applications are also available where high load specifications are required.

Subject to specifications, each plank will hold a superimposed load of 27kg/m<sup>2</sup> together with point load 150 kilos.

Whilst the basic system is supported on the partitions, Thrislington can also provide plank & tile alternatives designed to be suspended from a concrete or steelwork structure by a unique hanging system. In these situations the ceiling can be installed independently from the partitioning, giving faster relocatable advantages for subsequent layout changes.



# PARTITION WALLS



Thrislington partition wall products have been developed for use by, and in conjunction with leading cleanroom designers and end users. Surface of the panel can be powder coated/ precoated galvanized steel in standard RAL colors, stainless steel depending on industry and the application.

Standard panels are 50/60 and 80mm thick in standard module width 1197mm using a progressive or non progressive (pilaster joint) method of assembly. Panel height can vary up to 5000mm in a single lift, multi-lifts being available in conjunction with Thrislington integrated steel support systems.

Core materials are dependent on application and can be selected from honeycomb craft paper, rockwool and PUF. There are different types of vertical panel to panel jointing techniques available.

Thrislington's unique recessed leveling plinth gives the facility of continuous floor to wall membrane. Interface between the partition wall and floor is achieved in a number of ways, again dependent on application and classification.

Connection between partition and the existing fabric will utilise our pre-formed closing channel and special details can be produced where required, again with various covings options available to meet specifications.

Integration between partition head and ceiling is achieved by utilisation of standard top channel together with various covings options, if required.

Special pre-formed, right angled and three-way panels can be incorporated to maintain an easily cleaned mono-lithic enclosure to meet most exacting requirements.

The partition walls, and indeed ceilings, can be designed to facilitate and incorporate the various design principles, utilised in Laminar and non-Laminar airflow cleanrooms.



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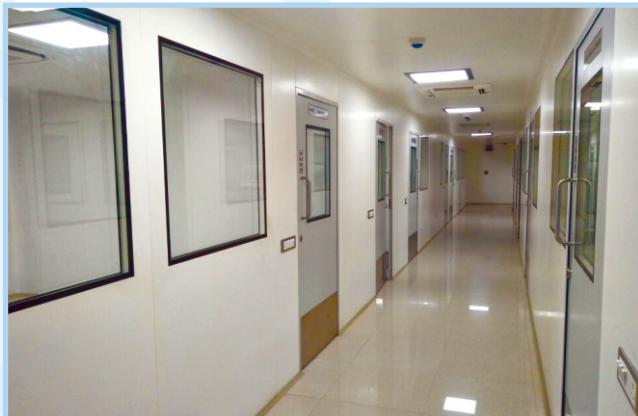
# PARTITION GLAZING

This size and style of glazing within the cleanroom envelope can be determined by both aesthetic and classification requirements.

Thrislington offers various methods of glazing, both single and double, utilising gasket, metal framed (almost flush) and totally flush options, together with any necessary fire and acoustic properties that may be required.

The selection of vision panels is closely related to the classification of the cleanroom and function contained therein and is usually in correlation to the choice of window preferred within the partition.

These vision panels can be single or double glazed, square, rectangular with semi flush or completely flush detail. Standard clean room vision panel size available 900x900 mm in wall panel. Also can be provide non standard as per project requirements.



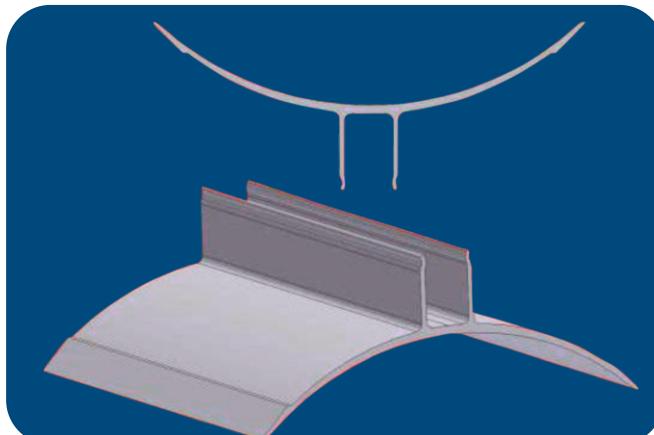
# CLEAN ROOM PARTITIONS - COVING & INFIL



2-D CORNER



3-D CORNER

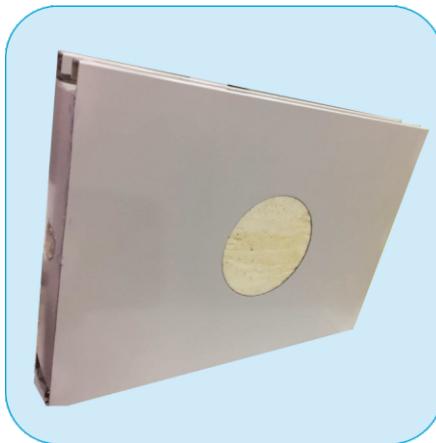


STANDARD COVING WITH BACKING MEMBER

## Modular Clean Room Solution Walls - Infil



ROCKWOOL



POLY URETHANE FOAM (PUF)



KRAFT PAPER IN HONEYCOMB CONSTRUCTION



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# PRODUCT INSTALLATION



# PRODUCT INSTALLATION





Thrislington

# FIRE TEST CERTIFICATE

**warringtonfire - mideast**

**CERTIFICATE OF APPROVAL**  
No. ME0207

This is to certify that the referenced product of  
**SYNERGY THRISLINGTON**

Village: Beer Plant, P.O. Marjeh, Talabat, Nalagarh,  
District-Solan, Himachal Pradesh, India-170001  
Tel: +91 1795 265375 Fax: +91 1795 265374

has been assessed against the requirements of the warringtonfire - mideast certification scheme and is approved for use within the scope of the test and/or assessment report(s) referred.

**Mineral Fibre Cored, Stiffened Steel Doorsets**  
Up To 120 Minutes Integrity Performance In Accordance With  
Clause 8 of BS 476 Part 22:1987

Report Reference	Valid until
WF Assessment Report No. 197043	1 <sup>st</sup> February 2021

**Doorset configuration**

Maximum Height	Maximum Width	Leaf Thickness
2207 mm	1115 mm	44 mm
Singledoor, Single-leaf, (latched)		
2207 mm	1115 mm	44 mm

**Doorset Construction**

**Door Leaf** Door leaf freely comprises 1 mm thick galvanised mild steel with internal stiffeners at 150 mm centres, thermal fibre core insulation within voids between leaf and frame.

**Door Frame** 1.5 mm thick galvanised mild steel including 50 mm min rebate.

**Hardware** Door hardware may be as tested under the reference WF Report No. 197043 or as specified in the test specification or other documents for the required period.

**Vision Panel** 1 mm thick mineral fibre composite vision panel with dimensions of 200 mm by 200 mm may be included in one or both door leaves. Vision panel may include Pyrofoam® or similar (bonded to glass using Adhesive, adhesive) or 8 mm thick Pyrofoam.

Page 1 of 2

**warringtonfire - mideast**

**Executive Summary**

To assess the results of tests to BS 476:Part 2:1987+A1: 2009 and BS 476:Part 22:1987, this certificate is issued to confirm that the above product has demonstrated compliance with the requirements for a Class 0 surface, as defined in Approved Document E.

Generic Description	Product Reference	Thickness	Weight per unit area
Galvanised steel caging with 4 "Rockwool" panels	50mm x 40.7mm <sup>2</sup>		
Surface components used to characterise composite			
Doors	Double leaf	1115 mm	44 mm
Doors	Double leaf	1115 mm	44 mm

Please see page 3 of this test report for the full description of the product tested.

**Test Sponsor** Synergy Thrislington, Village-Bear-Plant, P.O. Marjeh, Talabat, Nalagarh, District-Solan, Himachal Pradesh, India-170001

**Options:** We consider the results of the tests to BS 476:Part 2:1987+A1: 2009 and BS 476:Part 22:1987, this certificate is issued to confirm that the above product complies with the requirements for Class 0, as defined in paragraph A3(2) of Approved document E.

**Date of Test** 21<sup>st</sup> December 2010

**Signatories**

*[Signatures]*

Report issued: 1<sup>st</sup> February 2011

**CBRI**

**TEST SCHEDULE 5/11**  
(Reference No. – FR 0366)

1. Name of the Laboratory  
Fire Research Laboratory  
Central Building Research Institute  
Mysore-247 007

2. Name of the Party  
Mr. Rakesh Kumar  
Vt. Bear Plant, P.O. Marjeh,  
Talabat, Nalagarh,  
District-Solan, H.P.

3. Evaluation

4. Date of Test  
February 25, 2011

5. Ambient Temperature  
22 °C

6. Fire Test Temperature  
900 °C

7. Applicability of Test Criteria  
Stability Yes  
Integrity Yes  
Insulation Yes

8. Specimen Details  
Double Leaf Single Swing G.I. Composite Fire Door  
Panel thickness: 44 mm  
Height: 2210 mm  
Width: 1500 mm  
Door Panel Thickness: 44 mm

9. Specimen Construction  
10. Door Type  
11. Door Installation  
12. Intended Test Duration  
120 Minutes

**Test Results**

The date of evaluation reveals that the double leaf single swing G.I. composite fire door specimen has been found to be stable, intact and insulated for the intended exposure for 120 min. (One hundred twenty minutes) only with respect to stability and integrity only.

*[Signatures]*

(Surish Kumar) (Dr. N.K. Saxena) (Dr. Sudip Singh)

**FRL FIRE RESEARCH LABORATORY**  
**CBRI Central Building Research Institute**  
Roorkee - 247 667 (U. K.) INDIA

**BRIEF EVALUATION REPORT**

BS 476 Part 5: Ignitability Evaluation for Materials

**Date of Evaluation** 1. April 08, 2013

**Spouse** Mr. Synergy Thrislington  
Plot No A-1, Industrial Area Phase I,  
Marjeh, Talabat, Nalagarh, India-170001

**Description of Product** 1. **PEI Panels**  
PEI thickness-48 mm, PVG sheet-0.5 mm thick.  
Density of PEI-40 kg/m<sup>3</sup>.  
This report has been prepared on the basis of the information provided by the spouse.

**Specimens dimensions** 228 mm x 228 mm x 50 mm

**Results**

Duration of exposure to  
Ignition temperature 1. 10 seconds

Duration of flaming after  
Ignition 1. NIL

Time for burning to reach  
the ignition temperature 1. Not applicable

Extent of burning of  
specimens within 20 sec. 1. NIL

**Classification** 1. P 7 Not Flammable

The following results relate only to the behaviour of the specimens of a product under the particular conditions of the evaluation; they are not intended to be the sole criterion for assessing the potential hazard of the material in use.

*[Signatures]*

(A. Ansari) PRINCIPAL INVESTIGATOR

**FIRE RESEARCH LABORATORY**  
CSIR - Central Building Research Institute  
Roorkee - 247 667 (U. K.) INDIA

TRANS PACIFIC CERTIFICATIONS LIMITED

## ISO 9001:2008

**Certificate of Registration**

This is to certify that

**Quality Management System** of

**SYNERGY THRISLINGTON**  
Village: Bear Plant, P.O. Marjeh, Talabat, Nalagarh,  
District-Solan, Himachal Pradesh, India-170001

is in accordance with the requirements of

**ISO 9001:2008**

This certificate is valid concerning all activities related to:

Design, Manufacturing, Supply & Installation of Domesticable Office Partitions, Classroom Partitions, Washable Non-Washable Classroom Partitions, Fire Rated Doors & Non Fire Rated Doors, Steel Windows, Household Doors & Windows, Clean Room Furniture, Laboratory Modular Furniture, Laboratory Furniture & Fume Extract Systems.

**ANZSIC Code: 2749**

11475 Certificate No. June 29, 2016 Due date of Certificate July 03, 2017 Certification Expiry Date

July 04, 2015 Date of Recertification July 03, 2018 Managing Director/Director

**TRANSPACIFIC CERTIFICATION**  
SYNTHETIC CERTIFICATION

**IAF** **C**

**TRANSPACIFIC CERTIFICATIONS LIMITED**  
Mysore, Karnataka, India | Email: info@transpacificcertifications.com | Website: www.transpacificcertifications.com | Address: 4 Pippa Cross, BEARAK, ACT 2685, AUSTRALIA

This certificate is only valid if it is used in conjunction with the International Accreditation Forum (IAF) logo. It is the responsibility of the certificated organization to ensure that the IAF logo is displayed prominently on the certificate. This certificate is only valid if it is used in conjunction with the International Accreditation Forum (IAF) logo. It is the responsibility of the certificated organization to ensure that the IAF logo is displayed prominently on the certificate.

## ISO 14001:2015

**Certificate of Registration**

For to certify that

**Synergy Thrislington**  
Village: Bear Plant, P.O. Marjeh, Talabat, Nalagarh, District-Solan,  
(Himachal Pradesh), India.

Is bear assessed by KJEL and found to comply with the requirements of

**ISO 14001 : 2015**  
Environmental Management System

For the following activities:  
Design, Manufacturing, Supply & Installation of Domesticable Office Partitions, Classroom Partitions, Washable Non-Washable Classroom Partitions, Fire Rated Doors & Non Fire Rated Doors, Steel Windows, Household Doors & Windows, Clean Room Furniture, Laboratory Modular Furniture, Laboratory Furniture & Fume Extract Systems.

ISO 14001:2015 Certificate No. 18U02BD

**TRANSPACIFIC CERTIFICATION**  
SYNTHETIC CERTIFICATION

**IAF** **C**

**Royal Impact Certification Ltd**  
United Kingdom, London, EC2A 3BB, United Kingdom

This certificate is only valid if it is used in conjunction with the International Accreditation Forum (IAF) logo. It is the responsibility of the certificated organization to ensure that the IAF logo is displayed prominently on the certificate.

**Certificate of Registration**

This is to certify that

**Synergy Thrislington**  
Village: Bear Plant, P.O. Marjeh, Talabat, Nalagarh, District-Solan,  
(Himachal Pradesh), India.

Is bear assessed by KJEL and found to comply with the requirements of

**OHSAS 18001:2007**  
Occupational Health & Safety Management System

For the following activities:  
Design, Manufacturing, Supply & Installation of Domesticable Office Partitions, Classroom Partitions, Washable Non-Washable Classroom Partitions, Fire Rated Doors & Non Fire Rated Doors, Steel Windows, Household Doors & Windows, Clean Room Furniture, Laboratory Modular Furniture, Laboratory Furniture & Fume Extract Systems.

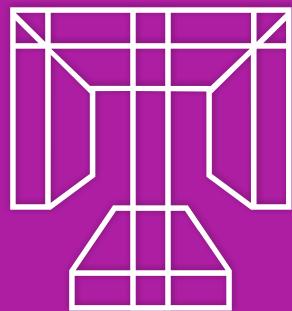
ISO 18001:2007 Certificate No. 18U02BE

**TRANSPACIFIC CERTIFICATION**  
SYNTHETIC CERTIFICATION

**IAF** **C**

**Royal Impact Certification Ltd**  
United Kingdom, London, EC2A 3BB, United Kingdom

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# Thrislington

## METAL DOORS



warrington  
certification

- CLEAN ROOM DOORS
- FIRE RATED/NON FIRE RATED DOORS
- FLUSH WINDOWS





Thrislington

# METAL DOORS

## METAL DOORS

Synergy Doors are specifically tailored to fulfill each and every requirements of the market with the use of galvanized/stainless steel. Synergy Doors are available in different specifications to achieve various requirements of our clients. The single/double leafs can be provided with DOP (Door Over Panels). The final finish can be of required RAL shade or with wood veneer of desired colour.



## FIRE RATED DOORS

Fire Rated Door with fire-resistance rating used as part of a passive fire protection system to reduce the spread of fire between compartments and to enable safe egress from a building or structure. Synergy offers fire rated doors with seamless joints having fire rated infill materials & fire resistant levels from 60 minutes to 4 hours all tested to BS 476 Part 22, (CBRI& Warrington). These doors can be made in single or double doors with firerated glazing option and with desired pure polyester powder coating (60-80 microns) RAL shade.



## CLEAN ROOM DOOR

Clean Room Door is manufactured from galvanized/stainless steel sheets with lock formed edges. Insulated and bonded with honeycomb paper, mineral wool or polyurethane foam forming a rigid flush fitting with; innovative flush double glazed finished with pure polyester powder coating of 60-80 microns forming a smooth surface finish.



## INDUSTRIAL DOOR

Heavy duty Industrial metal doors are available in size up to 3000 mm wide ; and 3000 mm in high. Doors are capable of accepting glazing in many configurations with air vents, louvers and a wide range of hardware. Doors are pure polyester powder coated achieving a coating thickness 60-80 microns forming a smooth surface finish.

## ACOUSTIC DOOR

Acoustic Door is designed to reduce sound transmission between rooms and to provide sound privacy in any architectural environment. Synergy offers acoustic doors with special linings, seals and structurally bonded cores to achieve high level of sound reduction (40 DB).

# IRONMONGERY



Dead Lock (101/102)



SS 304 Hinge



Door Seal



Door Closer



Liver Handle



Door stopper



Drop Seal



Cylinder 70 mm



Back to Back Pull Handle



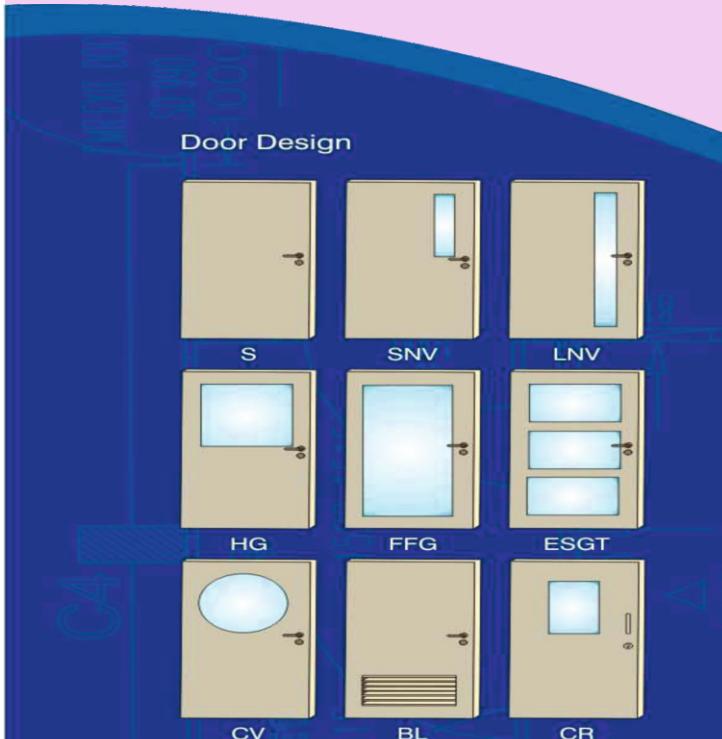
Push Plate



Toughened Glass



Flush Bolt



Push Plate and Kick Plate



Panic Bar



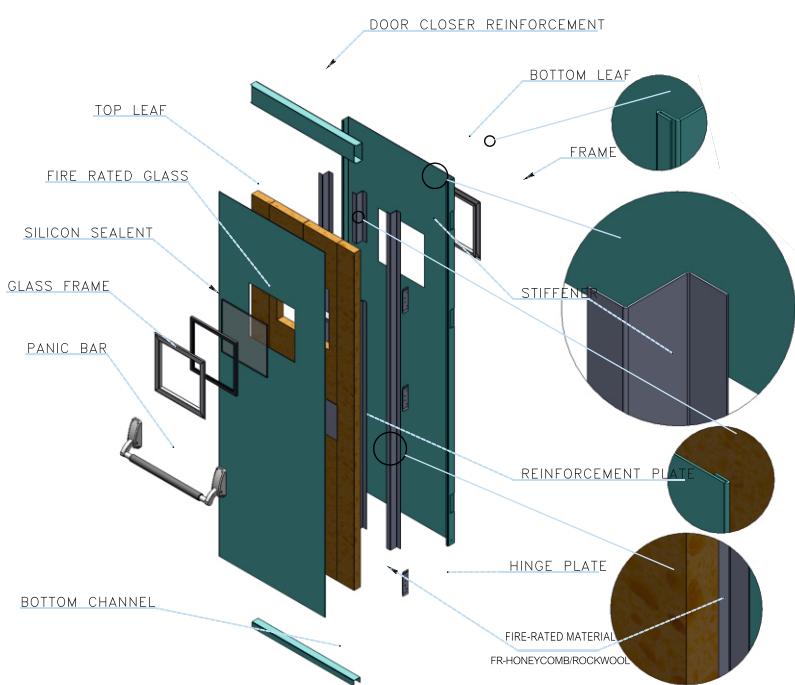
Thrislington

# DOOR SPECIFICATIONS

- Test Standards : 2Hrs and 4Hrs fire rated metal doors are tested to BS 476 part 22 from Warrington Fire (UK). Thrislington doors are also tested and approved by CBRI (Indian Fire test agency)
- Type: Single/ Double Leaf
- Leaf thickness: 44 mm (or as per specific requirement)
- Leaf and Frame Material: Galvanized Steel, Stainless Steel
- Door Leaf : 44mm thick, Shutter standard sheet thickness 1.0mm to 1.5mm and sheet thickness up to 3mm (Seamless type) for specific requirement
- Door Frame: Frame size 125X45mm, of Single rebate (Double rebate available on request) Sheet Thickness 1.5mm to 2.0mm.
- Infill - Rockwool (Density 96-144 kg/m<sup>3</sup>) | Fire Rated Honeycomb
- Reinforcements: At hinges, door closer and lock case fitments
- Finish: Doors are coated either pure polyester or epoxy polyester powder achieving a coating thickness of 70-90microns.  
(Powder coat in standard RAL colors)
- Ironmongery: SS ball bearing Hinges, Latch Lock, Door Closer, Panic Bar etc
- Handing: Left or right as needed Construction can be tailored to meet specific requirements.



## FIRE-RATED DOOR EXPLODED VIEW



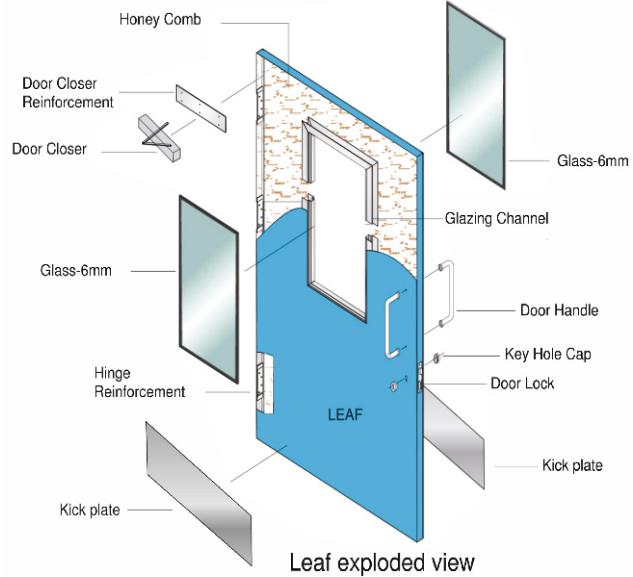
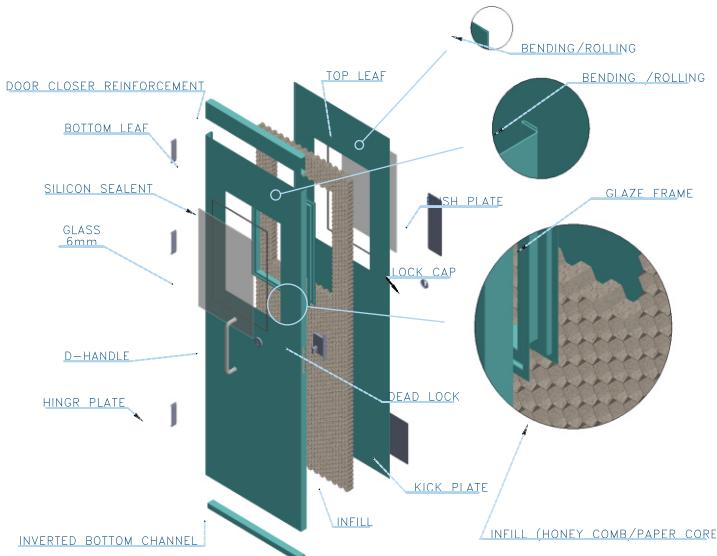
# NON FIRE RATED DOOR SPECIFICATIONS

- Type: Single/Double Leaf
- Leaf thickness: 44mm (or as per specific requirement)
- Leaf and Frame Material: 44mm thick, Shutter standard sheet thickness 0.8mm to 1.0mm thick and sheet thickness up to 3mm (Seamless type for specific requirement).
- Door Leaf : Frame Size 125x45mm, Single rebate (Double rebate available on request) Sheet Thickness 1.0mm to 1.2mm.  
Infill-Honeycomb construction kraft paper/PUF
- Reinforcements: At hinges, door closer and lock case fitments
- Finish: Doors are coated either pure polyester or epoxy polyester powder achieving a coating thickness of 70-90 microns.  
(Powder coat in standard RAL colors)
- Ironmongery : SS ball bearing Hinges, Latch Lock, Dead Lock, Door Closer, D Handle etc.
- Handing: Left or right as needed Construction can be tailored to meet specific requirements.



Cleanroom Door

## NON FIRE-RATED DOOR EXPLODED VIEW





Thrislington

## OTHER PRODUCT RANGE

### PREFABRICATED SHELTERS

With simple designs, robust construction, time delivery and installation backup, today Synergy Thrislington prefabricated shelters are natural choice for various requirements. Such solutions are gaining popularity as

- Project site offices
- Remotely located education / healthcare centers
- Slum rehabilitation solution
- Police/ military/ para-military camps /barracks
- Shelters / offices where permanent constructions is not allowed

Salient features fo Synergy Thrislington pre-fabricated shelters are

- Lightweight yet robust construction
- Easy and quick installation
- Demountability
- Aesthetics
- Longer lasting

Synergy Thrislington design and project team is capable of providing economical solutions including total avoidance of steel support structure. However where it is mandatory to use.

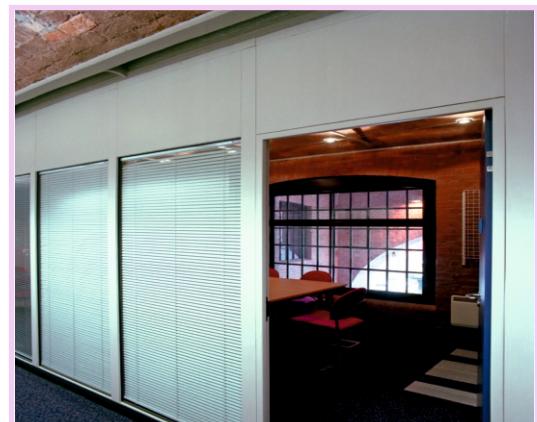


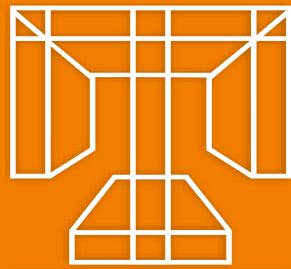
### OFFICE PARTITIONS

Synergy Thrislington office partitions draw strength from over six decades of knowledge of Thrislington UK in this product line. Product available for this application are

- Solid partitions
- Semi glazed partitions
- Fully glazed partitions
- Double glazed partitions with venetian blinds

Contemporary finish, modular design, ease of installation and demountability are some of the features of Synergy Thrislington office partition offerings.





Thrislington  
**HVAC**



- **HVAC**
- **BMS**
- **HVAC ELECTRICAL**



Website : [www.synergythrislington.net](http://www.synergythrislington.net)   [www.synergythrislington.com](http://www.synergythrislington.com)

# HVAC / BMS / HVAC ELECTRICAL



Thrislington

# OUR LEGACY



Since its inception, **SYNERGY THRISLINGTON** has expanded its horizons primarily focusing on air conditioning solutions. Our motto includes finding the solutions of social and community problems and growing the business accordingly. Synergy Thrislington strives to meet and exceed the customers' expectations while maintaining trust as a global player in the healthcare industry. We are committed to creating a healthy environment for generations. Synergy Thrislington undertakes **TURNKEY FACILITY PROJECTS** and offers a precise **SOLUTION FROM DESIGNING** the system to the validation and handing over the system to the client, ensuring critical parameters i.e.

CLASSIFICATIONS IN THE ROOM

ROOM CONDITIONS FOR TEMPERATURE

RELATIVE HUMIDITY MAINTAINING  
PRESSURE DIFFERENTIALS

## EXISTENCE

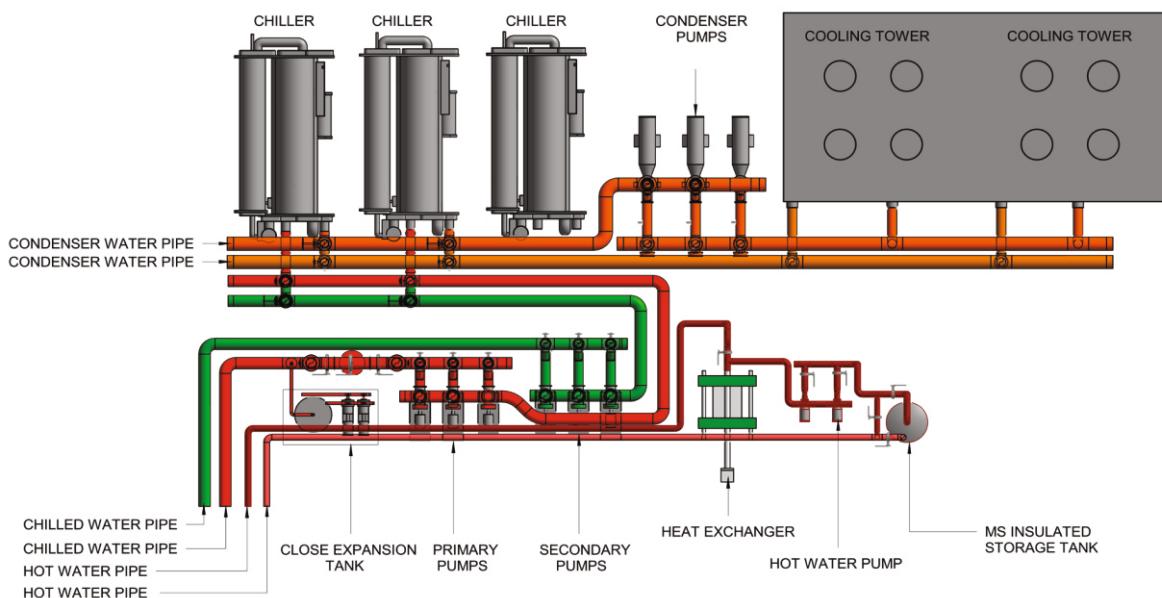
The essence of our existence is to identify, understand and fulfill our customers' needs and turn their dreams into reality. We aim at realizing our goal by analyzing the latest social trends, conducting exclusive marketing research, & exceeding our customer's expectations.

## CORE STRENGTH

Our core strength lies in the ability & knowledge of the team to convert user needs to a seamless state-of-the-art engineering installation for the industry. Our team has a vast experience of working in a variety of pharmaceutical facilities like Oncology, Vaccine, Injectables, Hormones, API, Liquids Orals, Labs, & Ointments.

# OUR SERVICES

Our services range from providing solutions for designing, supply, installation & commissioning of HVAC and BMS to associated electrical works for all types of Pharma projects which include: OSD, Injectables, Hormones, Oncology, Ointment along with helping industrial projects maintain the required conditions of class, temperature, RH and pressure in the rooms.



## HIGH SIDE HVAC

## LOW SIDE HVAC

We design, supply, install & commission equipment like:

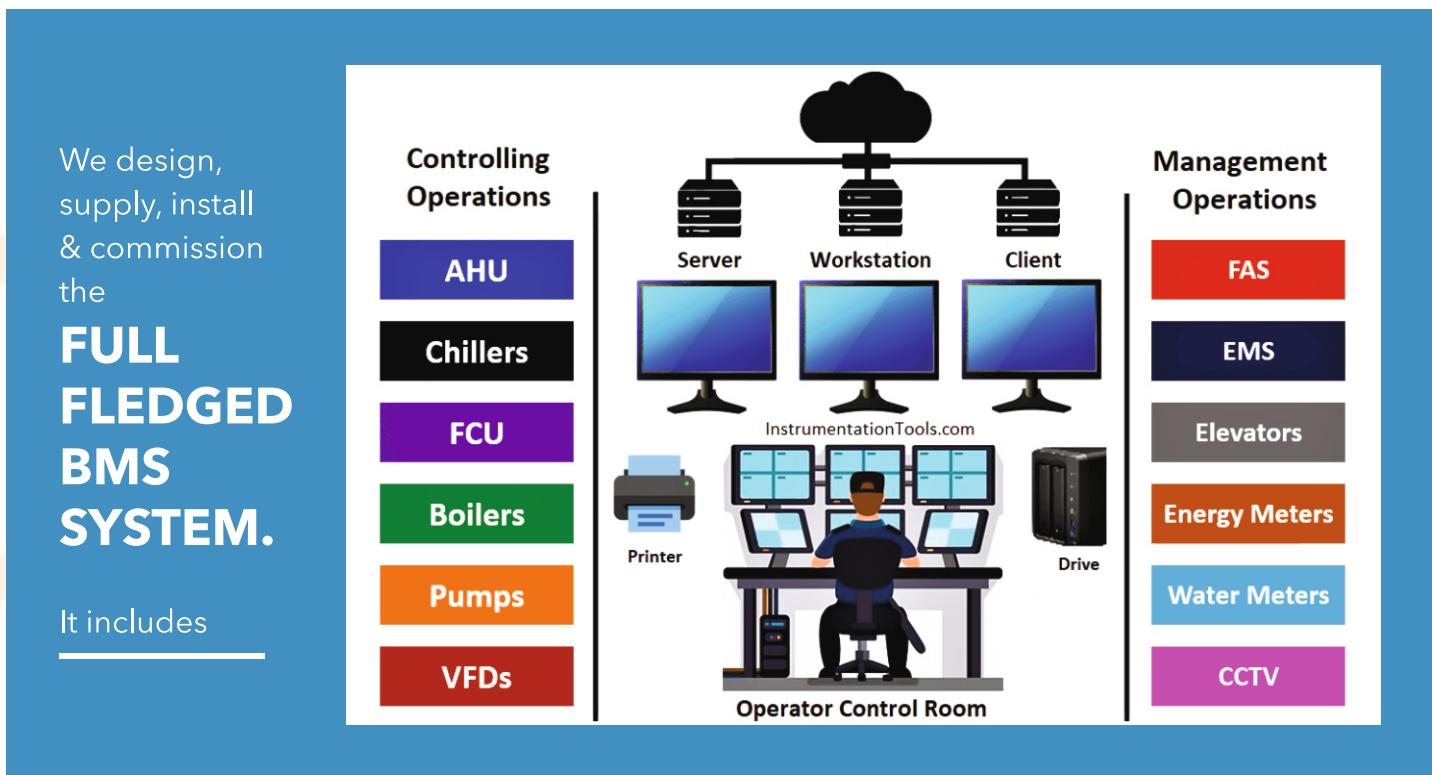
- **CHILLER** (WATER-COOLED /AIR-COOLED)
- COOLING TOWER**
- **CHILLED WATER PUMPS**  
(PRIMARY/SECONDARY VARIABLE PUMPING SYSTEM)
- **CONDENSER WATER PUMP**  
(FIXED SPEED)
- HOT WATER GENERATOR**
- (STEAM AND ELECTRICAL BASED)
- HOT WATER PUMPS**  
(FIXED SPEED)
- & THEIR INTERCONNECTING
- PIPING WITH VALVES (CHW / HW /CDW)**
- **FOR CIRCULATING CHILLED WATER & HOT WATER THROUGHOUT THE PLANT.**
- **AHUS & VENTILATION UNITS**
- Treated **FRESH AIR UNITS / PRE-COOLING COIL MODULE**
- **STANDALONE/ AHU CUM DEHUMIDIFIERS**
- **DUCTING - SITE/ PRE-FABRICATED**  
(MS Angle Flanges / TDF Flanges)
- **DUCT INSULATION** (Nitrile / XLPE - Plain Finish, with aluminum foil, with GC Cloth)
- **TERMINAL HEPA FILTER** (Gel Seal type, Gasket type- Room operated damper / service floor operated damper)
- **GRILLES / DIFFUSER / DAMPER**
- **MANIFOLDS** (chilled water / hot water / steam ) **FOR AHUS / DEHUMIDIFIERS FOR CIRCULATING CLEAN AIR IN THE ROOMS TO MAINTAIN THE REQUIRED TEMPERATURE / RH / PRESSURE.**



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# BUILDING MANAGEMENT SYSTEM

BMS is a microprocessor based system which centralizes the monitoring, controlling and operations of air and other services in the plant to achieve a safe and comfortable working environment, required temperature & RH conditions, controlled and clean air flow in the rooms at a reduced time and cost than the manual operations.



**WORKSTATION**

**SOFTWARE**  
(21 CFR / NON-21 CFR)

**ROUTERS**

**CONTROLLER**  
(STANDALONE / DDC / PLC)

**SENSOR FOR TAKING INPUTS**

**INTERCONNECTING CABLES**

**CABLE TRAY**

We also design basic controlling scheme including standalone controllers, sensor & interconnecting cable as an optimized solutions.

# ELECTRICAL WORK

1. We design, supply, install and commission the **ELECTRICAL WORK** associated with **HVAC**.
2. We offer services for both the panels of HVAC i.e. **DISTRIBUTION PANEL & STARTER PANEL**.
3. **ENERGY-EFFICIENT TECHNIQUES** are used to design Starter panels.
4. **VFD STARTER**(with bypass / without bypass starter) is used for equipment having VFD and starter (Star delta / DOL) is used for standard equipment.
5. **A COMPLETE WORKING SYSTEM** for the user is ensured by interconnecting power cable, earthing, cable tray for connection between panel and motor of equipment.

## VALIDATION & DOCUMENTATION

- At Synergy, we also do the **VALIDATION & DOCUMENTATION** of the system as per ISO 14644 standards which include:

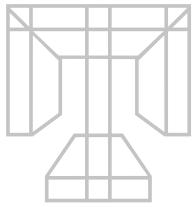
**AIR BALANCING &  
PRESSURE BALANCING**

**FILTER INTEGRITY TEST &  
DUCT LEAKAGE TEST**

**AIR FLOW  
PATTERN TEST**

**TEMPERATURE & RH  
MONITORING/MAPPING**

- In documentation, we provide **DQ, IQ & OQ** to clients ensuring a full record of the system for future requirements.



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## GLOBAL PRESENCE



## OUR PATRONS



## SYNERGY THRISLINGTON

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