

Thrislington

SYNERGY METAL DOORS



FIRE RATED AND NON-FIRE RATED STEEL DOORS  
& DOOR FRAMES



## INTRODUCTION

Thrislington Products Company Limited, UK excelling in various kind of doors and partitions since 1946 was taken over by the Synergy group in 2009. With this acquisition entire plant & machinery, product 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 Solan, 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 to educational institution, 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.

# SYNERGY 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 leaves can be provided with DOP (Door Over Panels). The final finish can be of required RAL shade or with woodvener 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 access 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 fire-rated 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 in pure polyester powder coating of 60-80 microns forming a smooth surface finish.

## GLASS GLAZED 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).

## FIRE RATED DOOR SPECIFICATIONS

<b>Test Standards</b>	2Hrs and 4Hrs fire rated metal doors are tested to BS 476 part 22 from Warrington (UK) and CBRI, Roorkee (Indian Fire Test Agency)
<b>Type</b>	Single / Double Leaf 4 Leaf Folding / Sliding Doors
<b>Leaf thickness</b>	44 mm thick (different thickness available as per specific requirement)
<b>Leaf and Frame</b>	Galvanized Steel, Stainless Steel Material
<b>Door Leaf</b>	44 mm thick with sheet thickness 1.0 mm (different thickness available as per specific requirement)
<b>Door Frame</b>	Frame Jamb Thickness 125x45 mm with 1.5 mm sheet thickness (Single rebate or Double rebate)
<b>Infill</b>	Rockwool / Honeycomb
<b>Reinforcements</b>	As per fire rated door norms
<b>Fixing</b>	With Steel Fastener bolt (concrete filling not required as per our design)
<b>Finish</b>	Doors are coated with pure polyester / epoxy polyester powder achieving a coating thickness of 60-80 microns. (Powder coat in standard RAL colors)
<b>Glazing</b>	6 mm thick clear fire rated glass / wired glass.
<b>Ironmongery</b>	SS ball bearing Hinges, Latch Lock, Door Closer, Panic Bar etc
<b>Handing</b>	Left or right as needed. <i>Construction can be tailored to meet specific requirements.</i>



## NON FIRE RATED DOOR SPECIFICATIONS

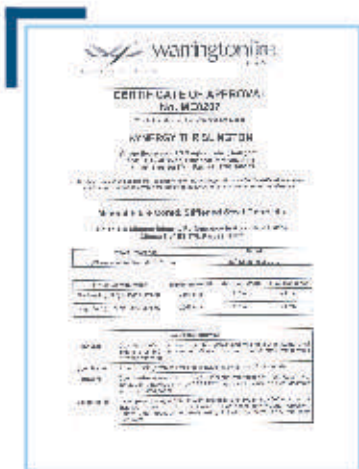
<b>Type</b>	Single / Double Leaf
<b>Leaf thickness</b>	44 mm (or as per specific requirement)
<b>Leaf and Frame</b>	Galvanized Steel, Stainless Steel
<b>Material</b>	
<b>Door Leaf</b>	44mm thick, Shutter standard sheet thickness 0.6 mm to 0.8 mm thick and sheet thickness up to 3 mm (Seamless type) for specific requirement.
<b>Door Frame</b>	Frame size 125x45 mm, Single rebate (Double rebate available on request) Sheet Thickness 1.0 mm to 1.2 mm.
<b>Infill</b>	Honeycomb / PUF
<b>Reinforcements</b>	At hinges, door closer and lock case fitments
<b>Finish</b>	Doors are coated with either pure polyester or epoxy polyester powder achieving a coating thickness of 60-80 microns. (Powder coat in standard RAL colors)
<b>Glazing</b>	6 mm toughened glass / float glass.
<b>Ironmongery</b>	SS ball bearing Hinges, Latch Lock, Dead Lock, Door Closer, D Handle etc.
<b>Handing</b>	Left or right as needed. <i>Construction can be tailored to meet specific requirements.</i>





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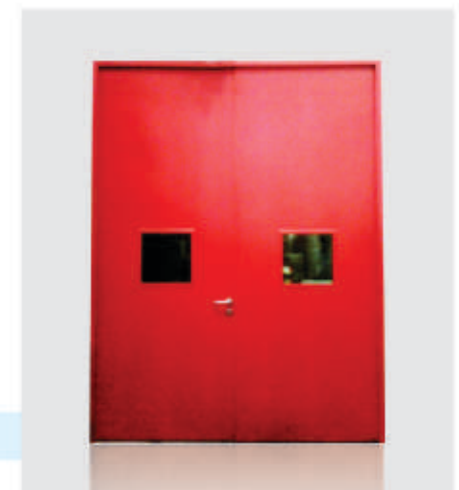
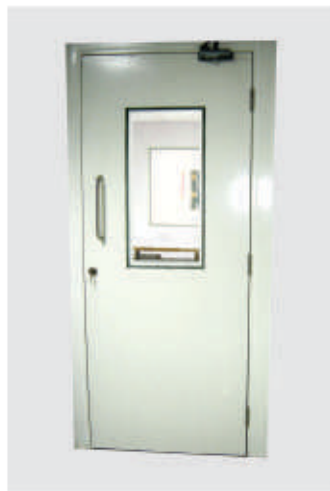
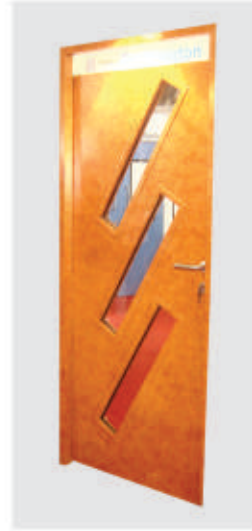
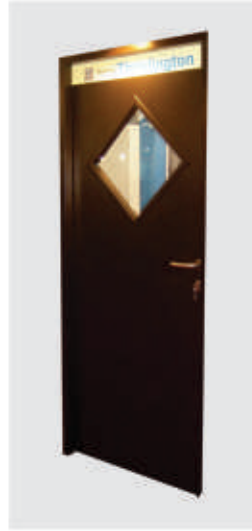
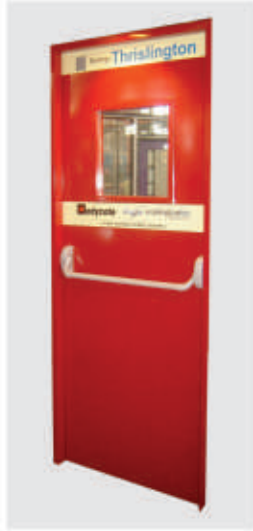
# FIRE TEST CERTIFICATES



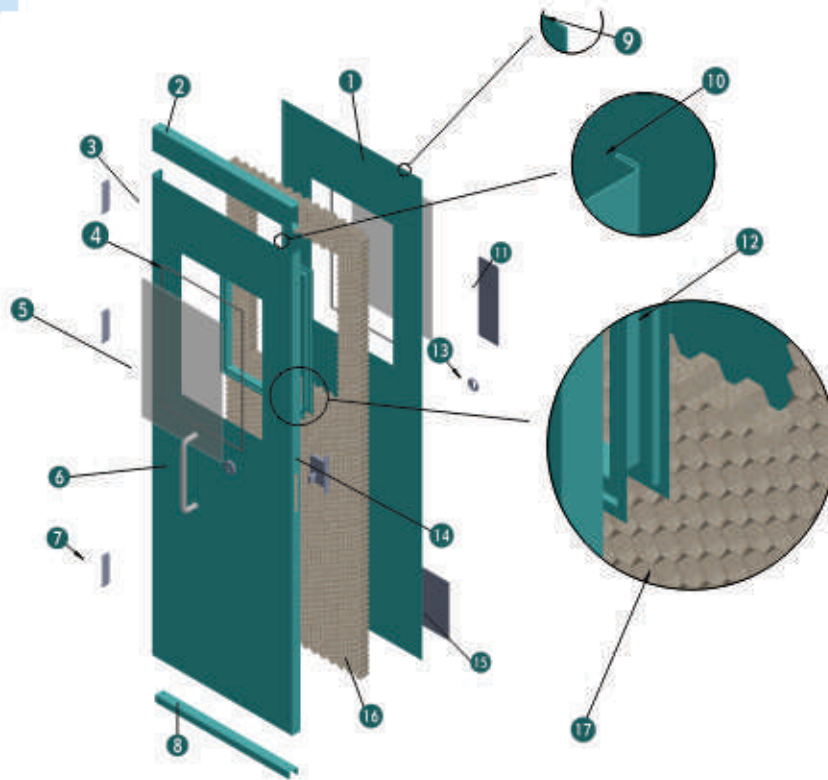
## CBRI



# DOORS

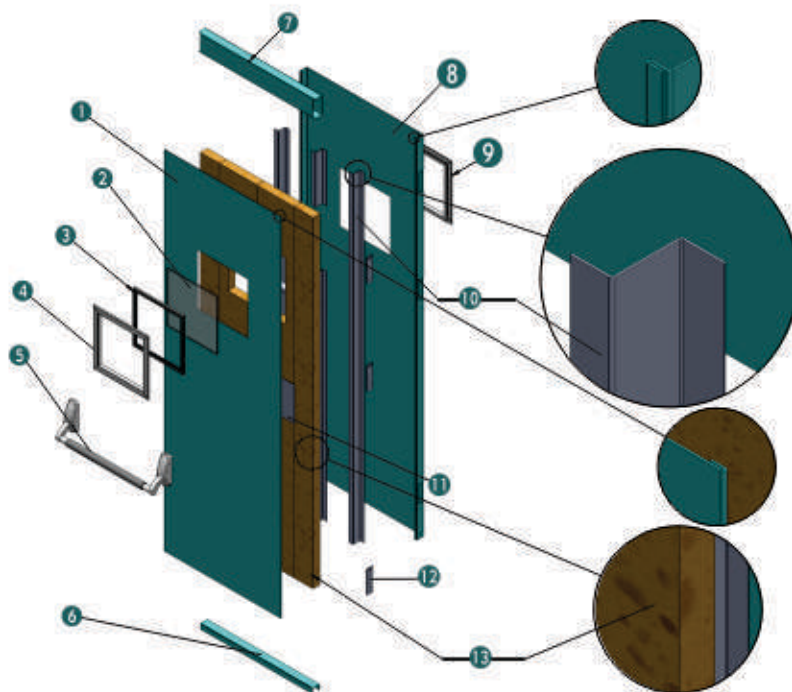


## FIRE-RATED DOOR EXPLODED VIEW



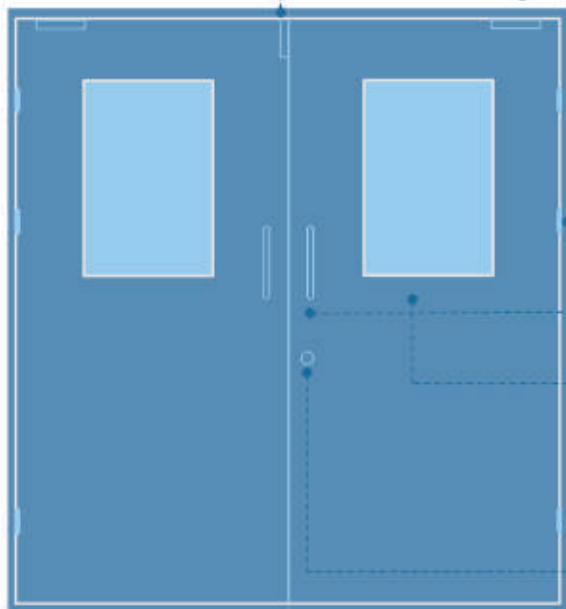
1. Top Leaf
2. Door Closer Reinforcement
3. Bottom Leaf
4. Silicon Sealant
5. Glass 6mm
6. D-Handle
7. Hinge Plate
8. Inverted Bottom Channel
9. Bending / Rolling
10. Bending / Rolling
11. Push Plate
12. Glaze Frame
13. Lock Cap
14. Dead Lock
15. Kick Plate
16. Infill
17. Infill (Honey Comb / Paper Core)

## NON FIRE-RATED DOOR EXPLODED VIEW



1. Top Leaf
2. Fire Rated Glass
3. Silicon Sealant
4. Glass Frame
5. Panic Bar
6. Bottom Channel
7. Door Closer Reinforcement
8. Bottom Leaf
9. Frame
10. Stiffener
11. Reinforcement
12. Hinge Plate
13. Fire-Rated Material  
FR-Honeycomb / Rockwool

# IRONMONGERY



DOOR CLOSER



HINGE



PANIC BAR



DOOR SEAL



FLUSH BOLT



D HANDEL



DEAD LOCK



LATCH LOCK



DOOR STOPPER





# DOOR DESIGN



S  
(Solid)



SNV  
(Short-Narrow  
Vision)



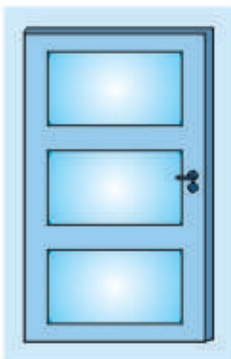
LNV  
(Long-Narrow  
Vision)



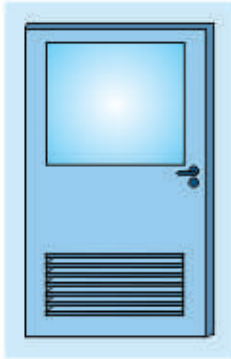
HG  
(Half Glass)



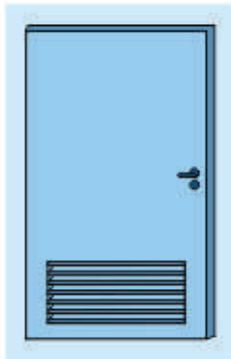
FFG  
(Full Face Glass)



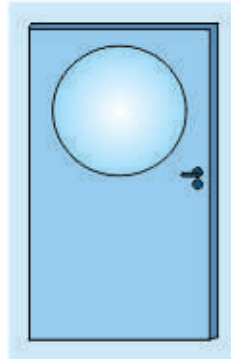
ESGT  
(Equal Size  
Glass Transom)



HGL  
(Half Glass Louver)



BL  
(Bottom Louver)



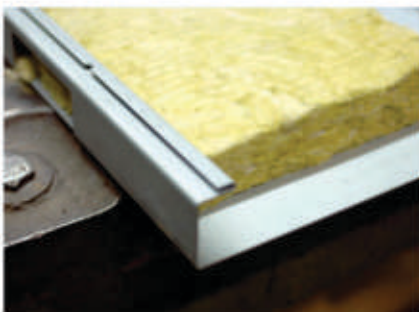
CV  
(Circular Vision)



CR  
(Clean Room)

# INFILL

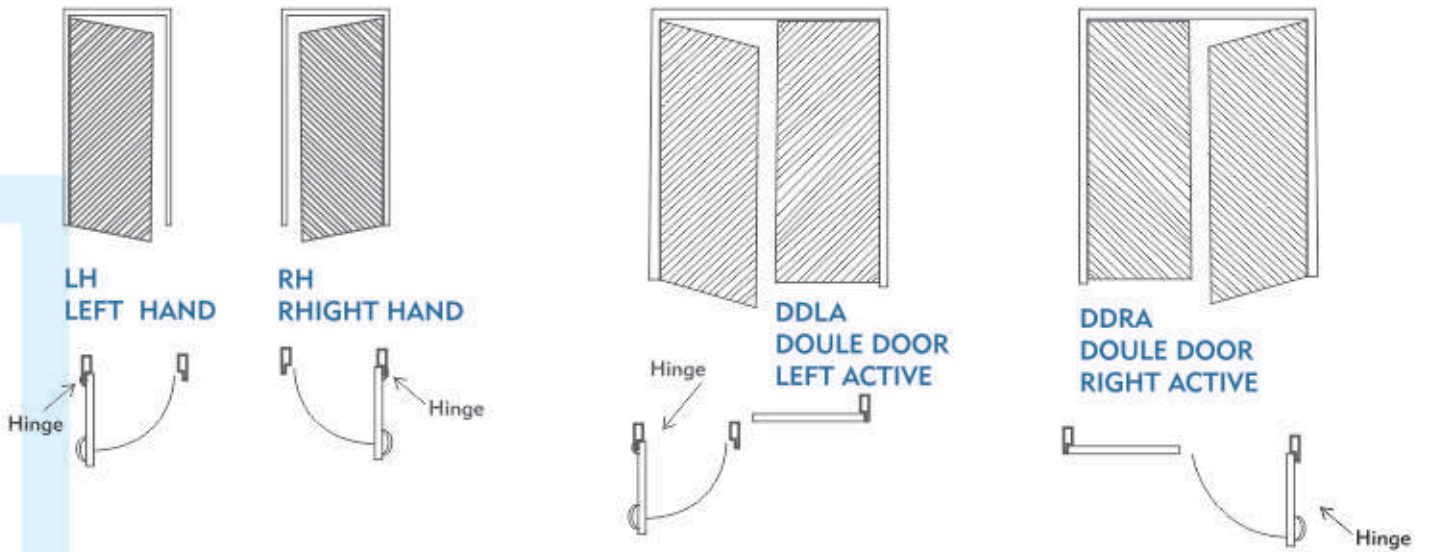
Mineral Wool



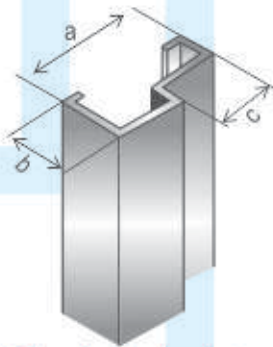
Honeycomb



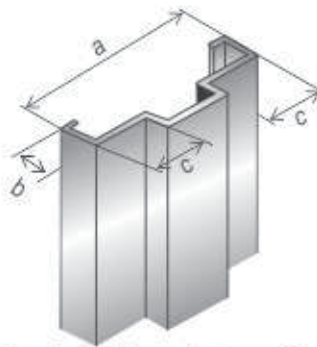
# DOOR HANDLING



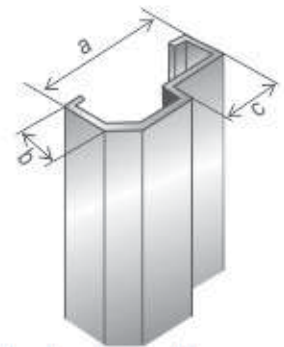
# FRAME PROFILE



**6 bends single rebate profile for fire rated and non-fire rated system**  
 \*\*\* various non standard frame profiles available on request

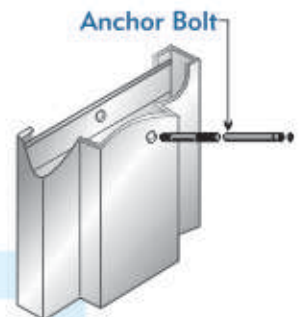
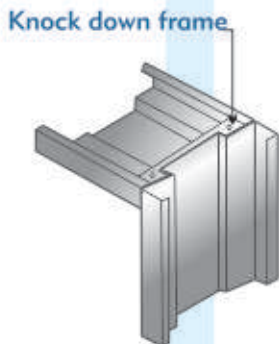


**8 bends double rebate profile for fire rated and non-fire rated system**



**7 bends single rebate with recessed profile for non-fire rated system**

# FIXING



# OTHER PRODUCT RANGE

## CLEAN ROOM PARTITIONS

For over 60 years, Thrislington has worked alongside designers, end users and specialist contractors to ensure economical and practical clean room solutions.

Synergy Thrislington team has taken the work of Thrislington future to meet constantly changing application needs. The company is capable of providing panels\ceiling\doors & window designed and manufactured to comply with contemporary practices and standards.

Synergy Thrislington clean rooms offerings are equally popular with end users, consultant, designers and contractor due to

- Adaptability to varying design & application needs
- Product quality
- Installation back-up
- On time delivery

Synergy Thrislington walk-on ceiling perfectly complements the clean room partition system. Maintenance access above the ceiling is available without the need for secondary walkways. All this makes Synergy Thrislington clean room offerings most preferred choice in today's competitive market of performance contracting.



## 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.



## 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

- Light weight 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 such structure, that can be designed very high light using strength and load bearing capacity of the panels.





Thrislington

## OUR PATRONS


## SYNERGY THRISLINGTON

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