



# GG Fabricators

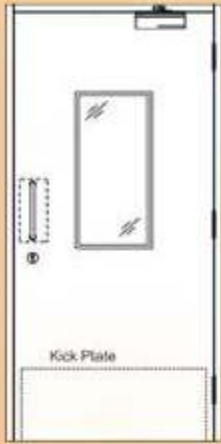


**Fire Doors Manufacturers**  
**Fabricators for Better Tommarow**

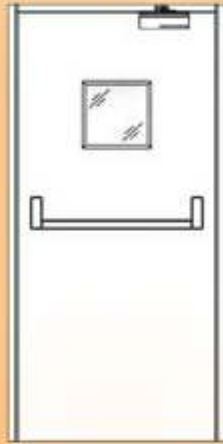


Website : [www.ggfabricator.in](http://www.ggfabricator.in)

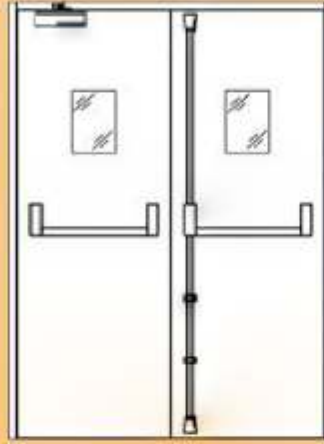
# Door Designs



Scientific



Single Leaf Fire Rated



Double Leaf Fire Rated



Louver



Round Vision



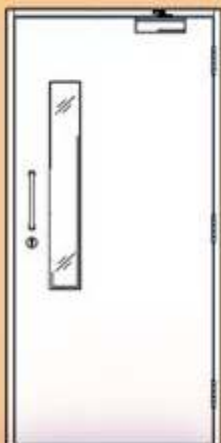
Single Glazed Vision



Solid



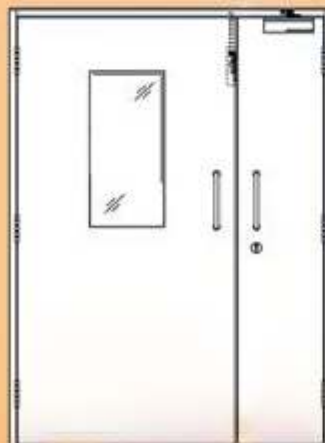
Full Vision



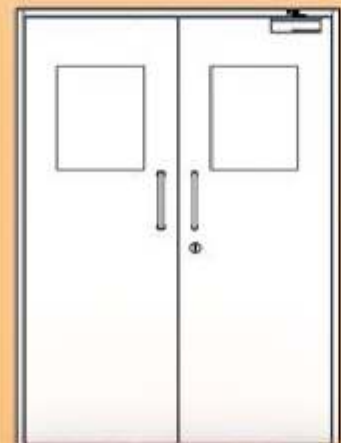
Narrow Vision



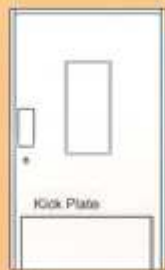
Equal Double Leaf



Unequal Double Leaf



Stainless Steel Equal Double Leaf



Front Elevation



Back Elevation

Single Leaf Scientific Door

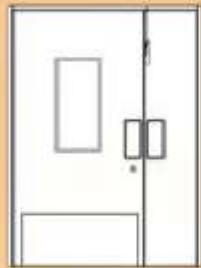


Front Elevation



Back Elevation

Equal Double Leaf Scientific Door

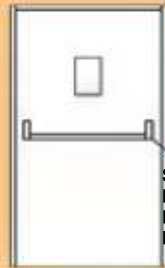


Front Elevation



Back Elevation

Unequal Double Leaf Scientific Door

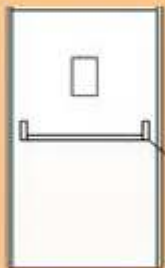


Front Elevation



Back Elevation

Single Leaf Fire-rated Door Without External Trim



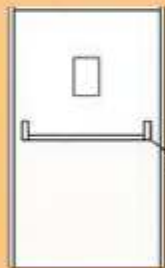
Single Point Locking Panic Bar



Lever Handle With Lock

Back Elevation

Single Leaf Fire-rated Door With External Trim (Option-I)



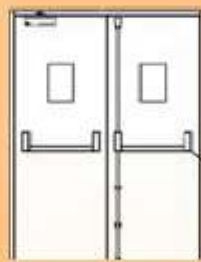
Single Point Locking Panic Bar



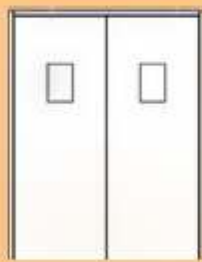
"D"-Handle with Lock

Back Elevation

Single Leaf Fire-rated Door With External Trim (Option-II)

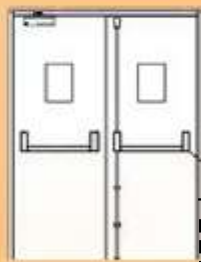


Front Elevation



Back Elevation

Double Leaf Fire-rated Door Without External Trim



Three Point Locking Panic Bar

Front Elevation



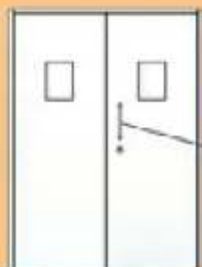
Back Elevation

Double Leaf Fire-rated Door Without External Trim (Option - I)



Three Point Locking Panic Bar

Front Elevation

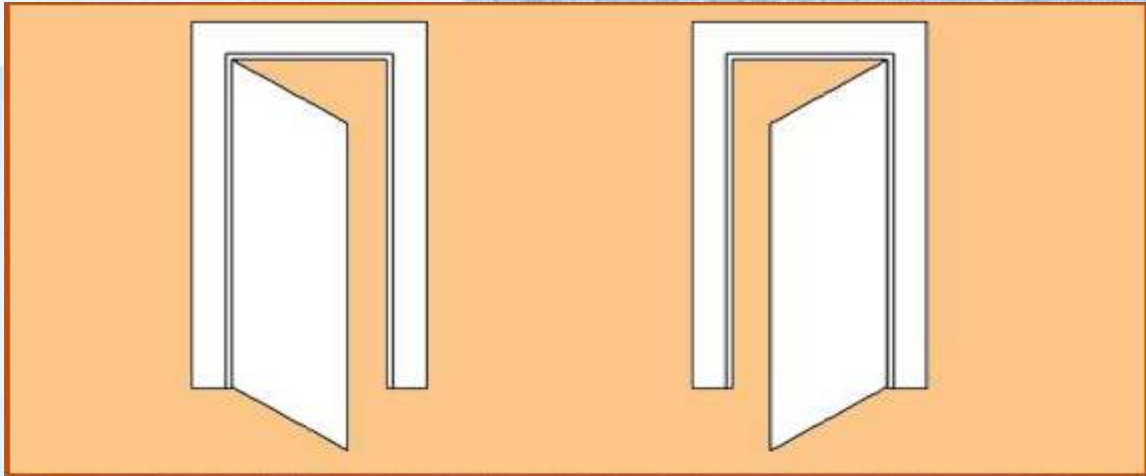


"D"-Handle with Lock

Back Elevation

Double Leaf Fire-rated Door With External Trim (Option - II)

## Door Handing System for Single Leaf Door

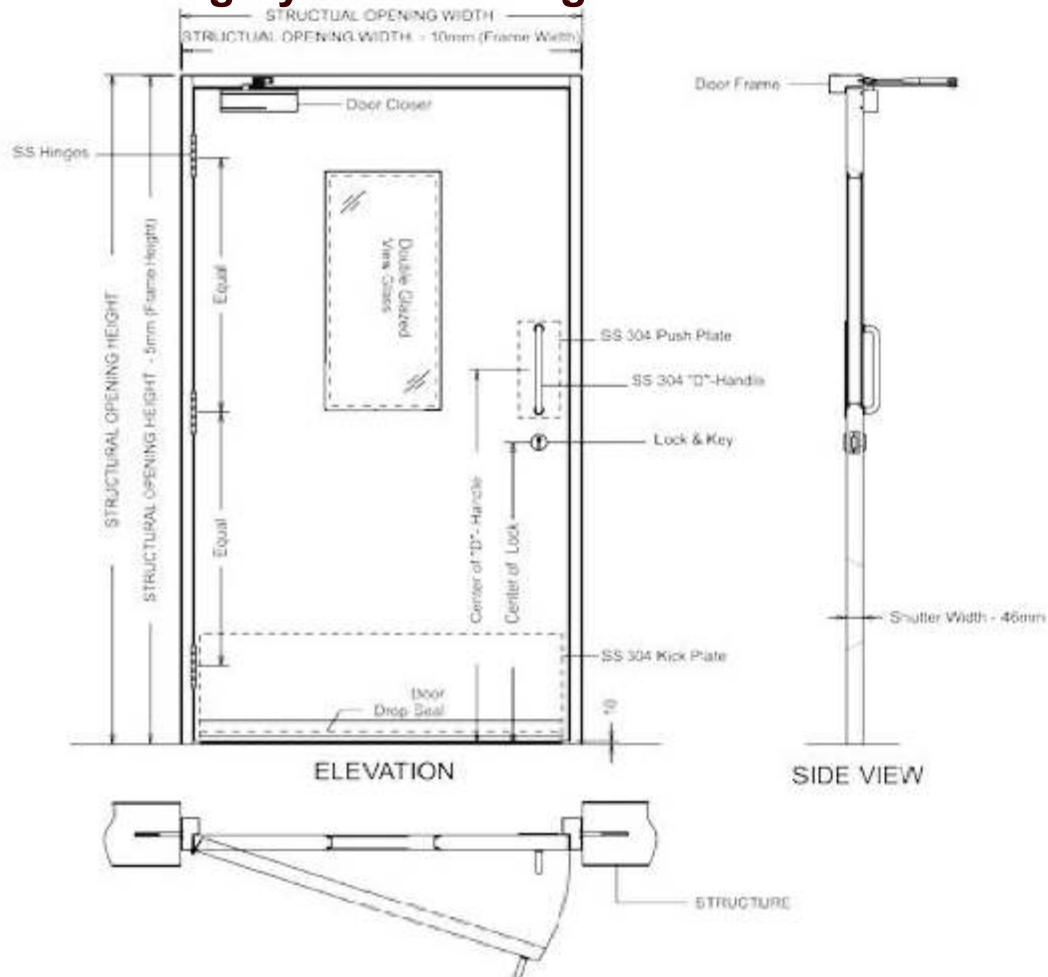


Single Door Leaf Hand Active (LHA)

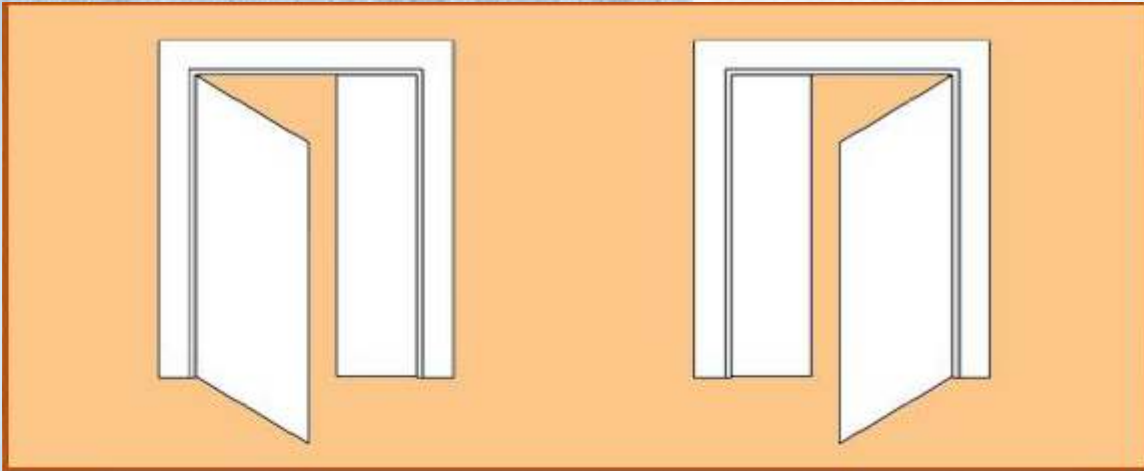
Single Door Right Hand Active (RHA)



## Door Measuring System for Single Leaf Door

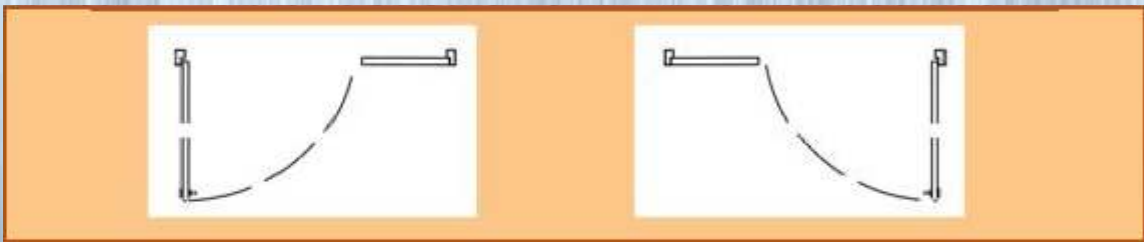


## Door Handing System for Un Equal Double Leaf Door

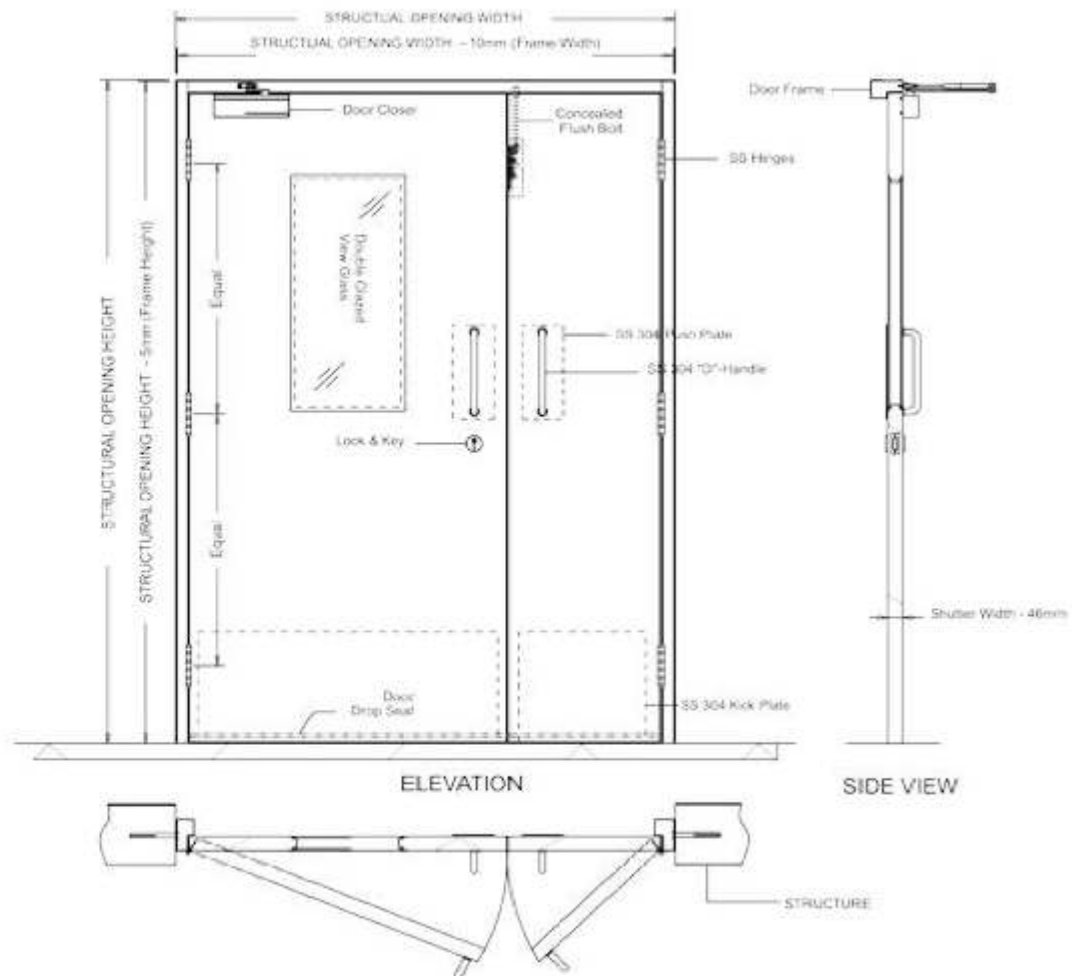


Un Equal Double Door Leaf Hand Active (LHA)

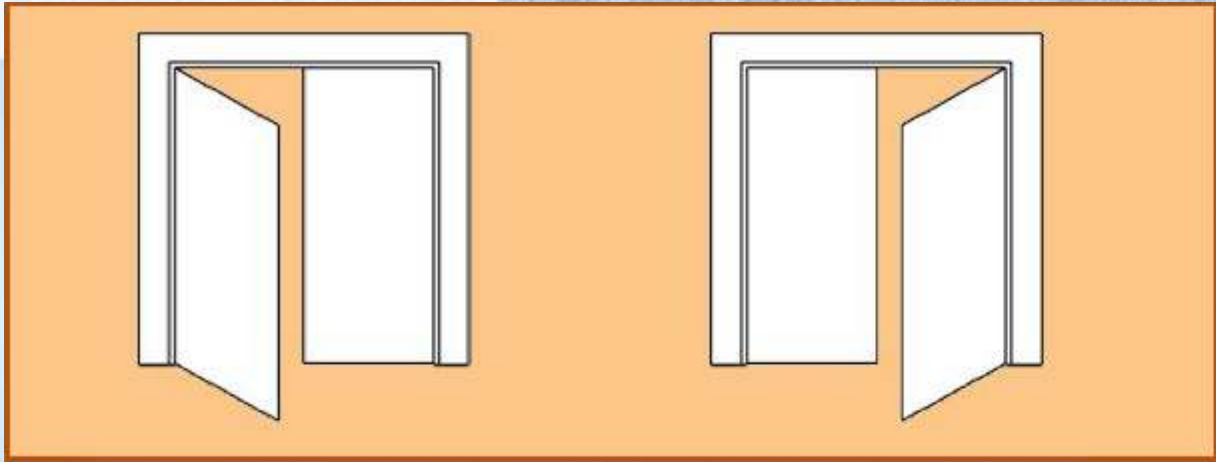
Un Equal Double Door Right Hand Active (RHA)



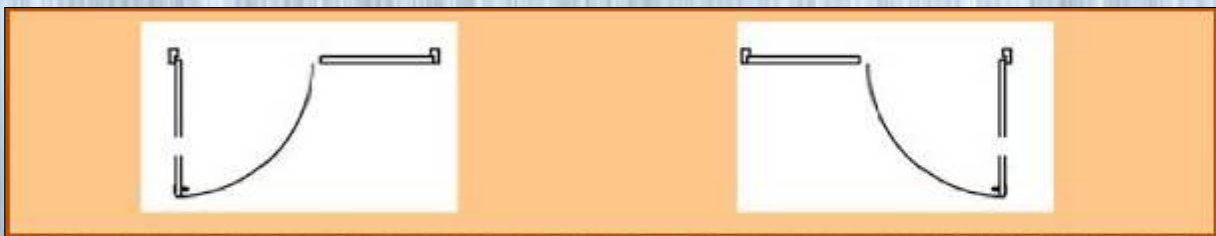
## Door Measuring System for Un Equal Double Leaf Door



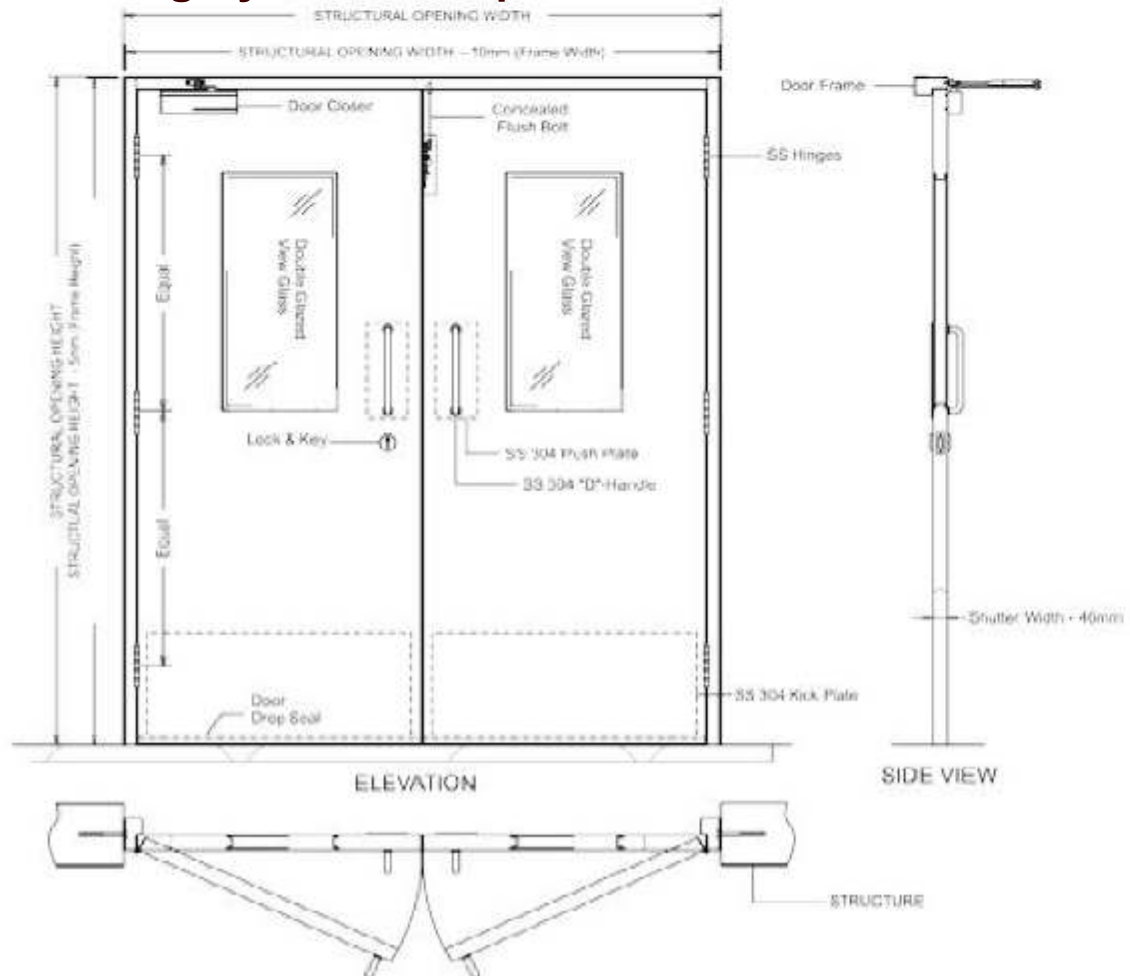
## Door Handing System for Equal Double Leaf Door



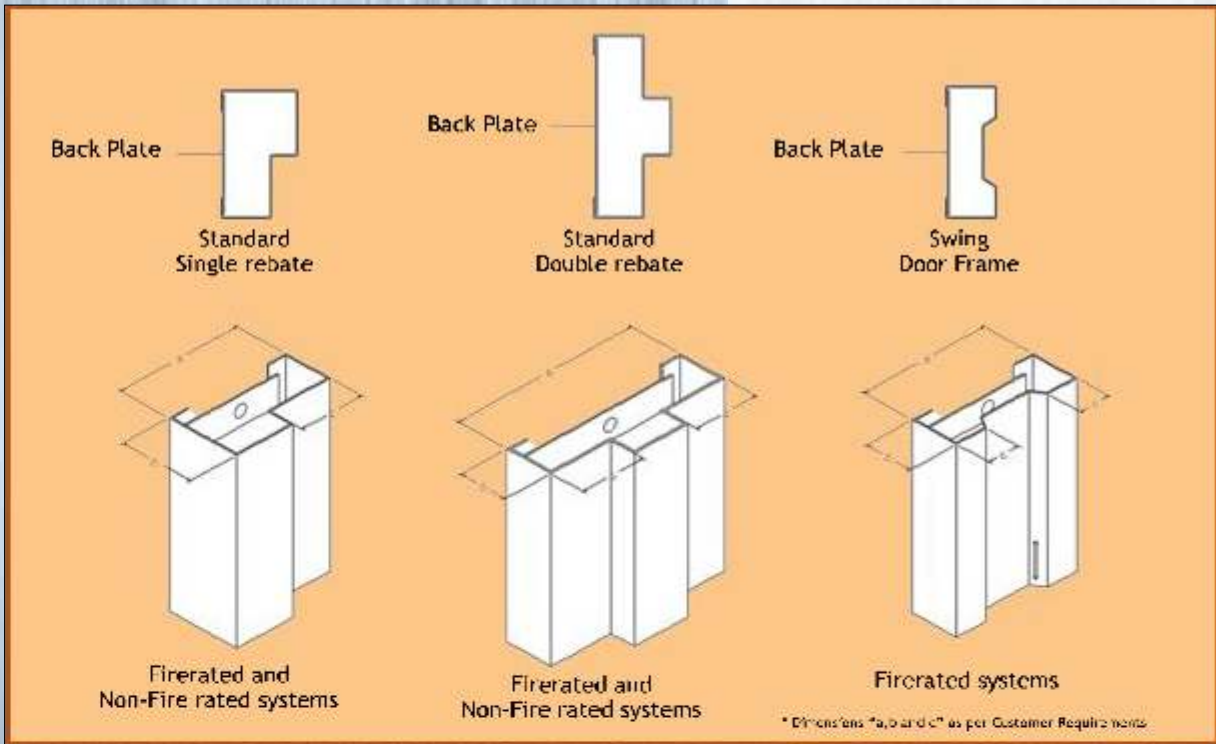
Double Door Leaf Hand Active (LHA)



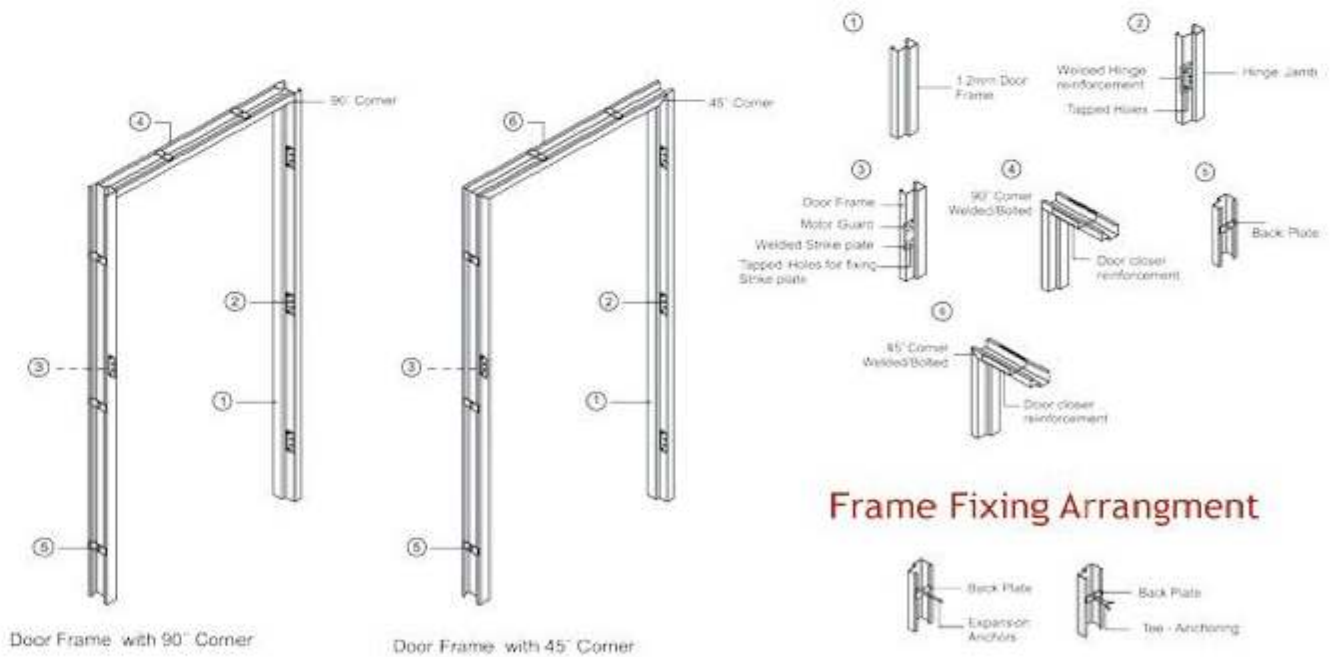
## Door Measuring System for Equal Double Leaf Door



# Frame Profile



## Door Frame construction



# Types of Doors

## General Doors

Steel door sets offer distinct advantage over other door systems. They offer higher protection against vandalism, fire, burglary and are relatively maintenance-free. They are more robust than timber/pvc/aluminium and are preferred by many Residential / commercial enterprises for various design options while meeting safety and security parameters. Our general doors have, over the years proved to be maintenance-friendly, long lasting and eco - friendly.



## Fire Rated Door

The application and use of Fire Rated Doors is of critical importance in buildings and areas needing to compartmentalize and contain the spread of fire. Steel fire rated doors are used to protect life and property in the event of fire related emergencies compartmentalising fires. For this, the door must serve as a fire and smoke barrier. Studies have shown that more people have lost lives due to smoke asphyxiation than fire. While the cause of fire could be arson, short circuit, gas leakage or sheer negligence, the range of passive fire doors are designed to restrict their spread and save lives.



## Scientific Doors

These doors can withstand exposure to chemical washing and are designed to meet the most stringent requirements for clean and hygienic applications including USFDA/WHO/CGMP approvals.

Scientific doors facilitate highest standards of hygiene for clean room environment in industries like pharmaceuticals, Bio-technologies, food, Micro Electronics Industries and hospitals. These fully flush type doors available in galvanized steel and stainless steel are provided with a range of indigenous and imported ironmongery in stainless steel.

These door sets can be custom designed for individual project requirements while incorporating special features in addition to the vision panels, ironmongery and wide range of colour finish.



## Stainless Steel Doors

Stainless Steel Doors are designed to meet harsh environmental exposure to chemicals, water, steam, laboratories, bottling plants, food processing plants, hospital surgery rooms and all humid environments.

Stainless steel doors and frames are available in standard and custom designs for non-residential construction. They are ideal when design and desired appearance require an extra touch of class.

Stainless steel doors are offered in a complete range of sizes. Special sizes can be made on request



Lab Shink



Lab Shink-2



SS Stool Squar SS Stool Round



Lab work Station



Lockers for Dress



Lab Storage Rack



Lab Storage Rack

Single Skin Duct Doors



FHC Double Skin in fill honecore



FHC Single Skin



Double inside view

FHC Single Skin Shaft Door



Single Skin Duck Doors

# Mortise Locks and Accessories



Mortise Dead Lock



Mortise Dead Lock with Latch



Lever Handle with Lock



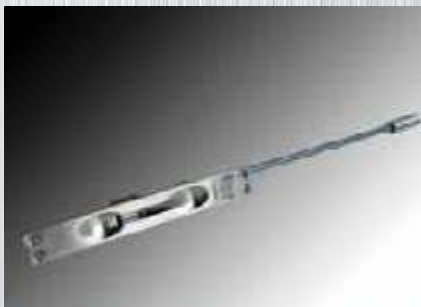
Cylinder Lock



Cylinder Lock



Knob type Lock with Key



Concealed Flush Bolt



Safety Chain



Hinge



Door Handles



Panic Bar



Stopper (Magnetic)



Eye View



Stopper



Door Closer



Door Seal



Door Closer (Concealed)



Panic Bar (Double Door)



Panic Bar (Handle Type)



Panic Bar (3 Point Locking)



Panic Bar (Box Type)



Panic Bar



Panic Bar (Single Point Locking)





## Infill

### Honeycomb Kraft paper

Honeycomb Kraft paper with its unique properties enhances the structural integrity of the doors with minimal additional weight to the door. The final finish on the door is predominantly dependent on the quality of the honeycomb Kraft paper and the glue which is used to get the flat surface. This infill material invariably has high crushing strength leading to impact resistance. The quality and consistent flat surface achieved because of the infill material is exceptional to the material and design of the doors.

Paper Honeycomb is an evolutionary product that replaces non eco-friendly materials like (wood, PUF, Rock Wool, Mineral wool, EPS) in their respective applications while preserving the key virtues of their usage in the concerned applications. On its own Paper Honeycomb is an eco-friendly, versatile, flexible and lightweight material that has excellent compatibility with other materials and an excellent strength-to-weight ratio. It combines with plywood, steel, plastics, FRP and many other materials as its sandwich faces to form some of the strongest composite panels for its weight and dimensions. It is also more economical than most materials, thereby making it an ideal choice. As a product made from recycled paper and eco-friendly glue, it is a boon to the earth as a 100% bio-degradable, non-polluting, eco-friendly material. Large scale usage of paper honeycomb can drastically boost a country's aim of preserving the nature.

### Other Infill Material



Rockwool



Polyurethane Foam

## Adhesive

### Glue

Adhesive bonding is used to fasten two surfaces together, usually producing a smooth bond. This joining technique involves glues, epoxies, or various plastic agents that bond by evaporation of a solvent or by curing a bonding agent with heat, pressure, or time.

An adhesive, or glue, is a mixture in a liquid or semi-liquid state that adheres or bonds items together. Adhesives may come from either natural or synthetic sources. The types of materials that can be bonded are vast but they are especially useful for bonding thin materials. Adhesives cure (harden) by either evaporating a solvent or by chemical reactions that occur between two or more constituents.

Adhesives are advantageous for joining thin or dissimilar materials, minimizing weight, and when a vibration dampening joint is needed.



## Powder Coatings

Powder coating is entirely a dry finishing process. It is composed of grinded particles of resins, pigments and other raw materials that are electrostatically charged and sprayed onto objects to be coated.

The objects to be coated are electrically grounded, so that the charged particles adhere to them until melted and fused together into a smooth coating in a curing oven, resulting in a uniform and durable high-quality finish.

Powder coating is a type of coating that is applied as a free-flowing, dry powder. The main difference between a conventional liquid paint and a powder coating is that the powder coating does not require a solvent to keep the binder and filler parts in a liquid suspension form. The coating is typically applied electrostatically and is then cured under heat to allow it to flow and form a "skin". The powder may be a thermoplastic or a thermoset polymer. It is usually used to create a hard finish that is tougher than conventional paint.

There are several advantages of powder coating over conventional liquid coatings



## Standard Finishes

RAL Code	Colour
RAL 3011	Brown Red
RAL 3020	Traffic Red
RAL 5010	Gentian Blue
RAL 5015	Sky Blue
RAL 5023	Distant Blue
RAL 7023	Concrete Grey
RAL 9001	Cream
RAL 9010	Pure White

# Polyurethane coatings Finish

Polyurethanes are often used as a primer to enhance final coating adhesion and finish. Polyurethane coatings usually bring colour retention, better surface finish (high gloss), increased scratch and abrasion resistance as well as moisture resistance. PU coatings are the highest moisture and water resistant coating, but also the only systems sustaining extreme temperature variations. A strong driver of the increasing use of polyurethanes in the coating industry is its high compatibility with environmentally friendly formulations, including low to zero VOC emissions, but also its potential use of renewable resources like bio-based polyols.

## Polyurethane Chemical Resistance at Room Temperature

■ Excellent    
 ■ Limited    
 ■ Little    
 ■ No Resistance

Acetic Acid, 30%	Ethylene Glycol	Potassium Acetated (aq)
Acetone	Ethylene Oxide	Potassium Chloride(aq)
Acetylene	Ethylene Tri chloride	Potassium Cyanide(aq)
Alkaline	Ferric Chloride (aq)	Potassium Hydroxide (aq)
Aluminium chloride (aq)	Ferric Nitrate(aq)	Producer Gas
Aluminium Nitrate(aq)	Ferric Sulphate(aq)	Propane
Ammonia Anhydrous	Fluorine(Liquid)	Propyl Alcohol
Ammonia Gas (cold)	Formaldehyde (RT)	Propylene
Ammonia Gas (hot)	Formic Acid	Propylene Oxide
Ammonium Chloride(aq)	Freon 11	Pydraul, 10E, 29 ELT
Ammonium Sulphate(aq)	Freon 12	Pydraul 30E, 50E, 65E
Amyl Alcohol	Freon 22	Pydraul 115E
Amyl	Fuel Oil	Pydraul 230E,312C,540C
Naphthalene		
Animal Fats	Future Glucose	Rapeseed Oil
Aqua Regia	Glue	Red Oil(MIL-H-5606)
Arsenic Acid	Glycerine	RJ-1 (MIL-F- 23338 B)
Asphalt	Glycols	RP 1(MIL-F-25576 C)
ASTM Fuel A	Green Sulphate Liquor	
ASTM Fuel B	Hexane	Salt Water
ASTM Fuel C	Hydraulic Oil	Sewage
Barium Chloride (aq)	Hydrochloric cid(cold)37%	Silicate Esters
Beer	Hydrochloric Acid(hot)37%	Silicone Oils
Beet Sugar Liquors	Hydrofluoric Acid (Conc.) cold	Silver Nitrate
Benzene	Hydrofluoric Acid (Conc.) hot	Skydrol 500
Benzine	Hydrogen Gas	Skydrol 700
Blast Furnace Gas	Isobutyl Alcohol	Soap Solutions
Bleach Solutions	Isooctane	Sodium Chloride(aq)
Borax	Isopropyl Acetate	Sodium Hydroxide (aq)
Boric Acid	Isopropyl Alcohol	Sodium Peroxide (aq)
Brake Fluid	Isopropyl Ether	Sodium Phosphatr(aq)
Brine	Kerosene	Sodium Sulphate (aq)
Bromine Water	Lacquers	Soya Bean Oil
Bunker Oil	Lacquer Solvents	Steam Under 300F
Butane	Lard	Steam Over 300F
Butter	Lavender Oil	Stoddard Solvent

Butyl Alcohol	Lead Acetate (aq)	Styrene
Butylene	Linseed Oil	Sucrose Solution
Calcium Chloride(aq)	Liquefied Petroleum Gas	- Sulphuric Acid(Dilute)
Calcium Hydroxide (aq)	Lubricating Oils	Sulphuric Acid(Conc.)
Calcium Nitrate (aq)	Lye	Sulphuric Acid (20% Oleum)
Calcium Sulphide (aq)	Magnesium Chloride(aq)	Sulphurous Acid
		Tannic Acid
Cane Sugar Liquors	Magnesium Hydroxide(aq)	
Carbolic Acid	Mercury	Tetrachloroethylene
Carbon Dioxide	Methane	Toluene
Carbolic Acid	Methyl Acetate	Transformer Oil
Carbon Monoxide	Methyl Acrylate	Transmission Fluid Type A
Carbon Tetrachloride	Methyl Alcohol	Trichloroethane
		Trichloroethylene
Castor Oil	Methyl Butyl ketone	
Chlorine(dry)	Methyl Chloride	Turbine Oil
Chlorine(wet)	Methylene chloride	Turpentine
Chloroform	Methyl Ethyl ketone	Varnish
Chlorox	Methyl isobutyl ketone	Vinegar
Chromic Acid	Milk	Vinyl Chloride Water
Citric Acid	Mineral Oil	
Coal Tar	Naphtha	Whiskey, Wines
Coconut Oil	Naphthalene	White Oil
Cod Liver Oil	Natural Gas	Wood Oil
Coke Oven Gas	Neatsfoot Oil	Xylene
Copper Chloride(aq)	Nitric Acid(Conc.)	Zinc Acetate(aq)
		Zinc Chloride (aq)
Copper Cyanide (aq)	Nitric Acid(Dilute)	
Corn Oil	Nitro ethane	
Cotton Seed Oil	Nitrogen	
Creosol	N-Octane	
Cyclohexane	Oleic Acid	
Denatured Alcohol	Oleum Spirits	
Detergent Solution	Olive Oil	
Diesel Oil	Oxygen - Cold	
Dioxane	Oxygen (200-400F)	
Dowtherm Oil	Paint Thinner, Deco	
Dry Cleaning Fluids	Perchloric Acid	
Ethane	Perchloroethylene	
Ethyl Acrylate	Petroleum - Below 250F	
Ethyl Alcohol	Petroleum-Above 250F	
Ethyl Benzene	Phenol	
Ethyl Cellulose	Phenyl Ethyl Ether	
Ethyl Chloride	Phosphoric Acid -45%	
Ethyl Ether	Pickling Solution	



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## **GG Fabricators**

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