



# Important Types of Doors Used In House Construction

## Types of Doors



## Based on Materials

### Wooden or Timber Doors

Wooden doors or wood doors are mainly used for interior door applications. Timber is the oldest material used for doors and timber will never look out of fashion. There are many good reasons to use wood such as wooden doors provide soundproofing, insulation and protection. It is easy to install and clean. Their life is long. Being a natural material they have a distinct appeal. They look glamorous. They are very expensive.

### Glass Doors

Glass doors look elegant and add prosperity and beauty to your home. They are the way to direct water to light your home. Cut glass panels mounted in wooden frames are a beautiful option for the front door. The disadvantage of this door is that it is easily broken. Therefore, they should be handled with care. However, with the help of hard glass this will not be easy.

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### **Steel Doors**

Steel doors are used in interior as well as exterior applications. This door has a steel face with a foam core for insulation. They are much stronger than other doors. They may not look as attractive as wooden or glass doors.

### **PVC Doors**

PVC doors are light in weight and easy to use. They come in a variety of designs and colors and look beautiful. These doors do not dry out and do not require much maintenance. But they are not scratch proof.

### **Fiberglass Doors**

Fiberglass doors are mostly used for outdoor application. These doors have many design options and can be easily shaped into different shapes and styles. These doors are durable and rigid. They generally prefer affordable housing. They are not superior to other types as far as appearance is concerned. Of course, they are cost-effective.

### **Aluminum Glazed Doors**

Aluminum doors with glass panels are commonly used in commercial applications. They are strong, durable and therefore, they are used as a security door. However, with full aluminum panels, their appearance will not look like the others.

### **Fiber Reinforced Plastic Doors / FRP Doors**

Fiber reinforced plastic doors are also known as FRP doors. It is available in the market in various colors and finishes. Fiber reinforced plastic doors offer numerous advantages such as high strength, very low maintenance, all weather resistant, easy fabrication, light weight and rust free.

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## **Based on the Operation of the Door Shutter**

### **Folding Doors**

Folding doors are used alone or as folding partitions so that two rooms can be used for the same room or separately as needed. They are most often used in rooms such as garden,

patio and veranda.

### **Sliding Doors**

Sliding doors are steel, wood and glass shutters in which steel rollers are fixed. These steel rollers rotate on the tracks provided at the top and bottom. It has one or more sliding shutters depending on the opening. In the old days, steel and wood sliding doors were commonly used for warehouses, large workshop rooms; Garage etc.

Nowadays, sliding doors are used in most offices and where this area is crowded because sliding doors save space and increase the efficiency of use.

### **Swing Doors**

'Frederick S. Merritt and Jonathan T. According to Ricketts '(author of the Building Design and Construction Handbook), swinging doors are slammed to one side to revolve around vertical axes. It is hung on buttons or hinges on the door frame. In this door its shutter is connected to the frame by double action springs. That is why the shutter can move both inside and outside.

There are two types of swing doors available - one is single-acting doors that can swing 90 ° or more in one direction; and double-acting doors that can swing 90 ° or more in each of the two directions. The swing door is used in most offices.

### **Revolving Doors**

In the revolving door, the door is arranged to rotate around the middle yellow. These doors rotate to one side of the shutter and close automatically.

According to JK, McKay (author of Building Construction Metrics, Volume 4), it is desirable to have a revolving door to avoid drafts, reduce road noise and avoid heat damage.

Revolving doors are mainly used to regulate access to heavy traffic areas i.e. tall buildings, public buildings, hospitals etc.

### **Rolling Shutter Doors**

In rolling shutter doors, the door shutter acts like a steel curtain. Rolling shutter doors are advantageous because they do not require much space. These doors are very strong, durable and offer proper protection. They are mainly used in stores, workshops, factories, garages and shops front etc.

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### **Collapsible Doors**

Collapsible doors are fabricated from mild steel flats or channels and can be opened or closed by slightly pulling or pushing. The collapsible door is arranged in such a way that when you open the door all the straps are joined together and the straps are stretched when approached. They occupy the least space and are therefore preferable. Collapsible doors are used for main entrances to residential buildings, shops, warehouses, cinema halls, etc.

### **Pivot Doors**

The main doors work on a special pivot hinge, with pins on the top and bottom of the door. A significant advantage of pivot hinges is that they can provide support for a wider and stronger door than traditional pin and barrel hinges. Along with the technical advantage, it gives aesthetic uniqueness in opening and closing and offers a noticeable swing function. Main doors are commonly used for entrance doors.

## **Based on Construction Method**

### **Panel Doors**

Panel doors have been used indoors for a long time. According to 'R. Chudle '(author of Construction Technology Volume-1), offers a variety of panel doors depending on the British standard one, two, three or four-panel format. The panel can make plywood, block board, veneer, glass, wood, etc. They are the strongest doors. They offer a variety of designs but are labor intensive and skilled workforce.

### **Flush Doors**

Nowadays, flush doors are the most common type used in homes as well as in public buildings due to its pleasing appearance and simple construction. This door has a joint less surface on both sides. With a simple face, it is easy to clean and decorate. Flush doors are also high strength, durability and cheaper than panel doors. With varieties of laminates and veneers, which look like natural wood, they look beautiful and attractive and are available for a wide selection.

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