



DOORS



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DOORS

We have all heard about the importance of making a great first impression and that you can't make a second first impression. Believe it or not, your front door plays an enormous role in your building's first impression and can add to the value while enhancing your curb appeal. Modern doors are designed with outstanding thermal insulation and sound reduction, together with the highest level of security, each door is manufactured to precision to fit your exact needs. Different door types are available in the market to serve your building's functional needs. From traditional to contemporary automated types you now have the choice of paneling, frames and luxury handle to add something special to your door. From plain to vibrant, you can get varied options for residential, commercial and industrial needs.

In this edition of eMagazine we have focused on automatic doors, fire-rated doors, clean room doors, curved sliding doors and different types of doors used in commercial and industrial applications. Getting an overview of different types of doors will help you determine how you can select the right options for your project needs.

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Automatic doors for warehouse; selection consideration and different types

Doors for warehouses must stand up to tough handling and safety. These doors must be designed to maximize the traffic of materials in and out of warehouse facilities. The automatic doors are the best way to go for warehouses. These doors come with the advantages of allowing people to pass through a door with ease without the worry of manually opening a heavy door. It operates by using a range of sensors that can

detect different things such as sound, light, weight and motion. Automatic doors can also assist in the management of security. Security personnel can easily control the doors remotely, meaning that they can grant access to selective traffic or deactivate the door completely when necessary. Most automatic doors come with a locking system which gives the user more control and increases security. The doors effectively contribute to energy saving and reduce annual heating and cooling costs. Doors open only when activated

and automatically close to eliminate the doors being left open. They also prevent air-conditioning from escaping and outside air and dust from entering. When you're choosing the right automatic door for your warehouse, it's important to consider a range of factors.

Factors to consider for the selection of automatic warehouse doors

Quality of door - You need to decide upon the quality of the door as it goes

past the initial installation and purchasing. The things to consider are maintenance, efficiency costs and safety assurance.

Size of the door - Selection of the required size will save you a considerable amount of money. You can make savings not only on the initial cost but also on the energy costs of lowering and lifting the door for temperature control. Chalk out traffic needs for entry or departure and the vehicle's turning circle when selecting a size.

Fix upon the purpose of the door. Decide upon the needs of your warehouse operations and the daily role of its doors. If your door is for manufacturing, distribution and storage areas then it needs to be high speed, tight sealing, and durable. If it is for cold storage it's essential to select a door with high insulation and speed.

The traffic of the door - An estimation of the type of traffic going through your door is necessary. Make sure you match your operation requirements to what you require from the door when it's open [access flexibility] and closed [energy saving].

Safety of the door - Go through the safety protocol manuals and their role for integration into a fire exit strategy. This would ensure that your warehouse is safe at all times and can be easily evacuated while complying with fire door regulations.

Different types of automated warehouse doors

High-speed doors

These doors are designed and factory-made using state-of-the-art and resourceful engineering technology for frequent use in high-traffic areas. The high opening speed of these doors reduces the time taken in the move-



ment of material, thus hastening the logistics process. The vertical guides of these doors incorporate seals to prevent draughts and the ingress of dust, insects, and vermin. The door can also be manually opened in case of an emergency. It is best fitted for the warehouse where fast workflow is required.

Rapid roll-up doors

These doors are used where sections of the facilities have to be isolated from other sections. The simple curtain design of the door aids in the quick opening and closure of doors. These doors are directly connected to the high-performance drives. They are made of high tear tensile strength PVC material and used for indoor applications in warehouses requiring a high frequency of operations.



Sectional Overhead Doors

Sectional Overhead Doors are made of high-grade pre-coated galvanised steel. These are available in two forms that are insulated sandwich panel doors and glazed doors. These doors are built to ensure the maximum ease and elasticity of use which, in turn, ensures fast and hassle-free movements. It is best fitted for logistic needs and is built to help the highest ease and flexibility of use. An array of door panel profiles, track and hardware, and specialized options allows you to further customize these doors to your specific project requirements.



Roller doors

These doors have a vertical opening and length can be optimised. It consists of an array of horizontal slats or bars that are hinged together. These doors operate in a vertical plane within a frame. The doors' operation may be manual or electrically operated that can be controlled using a remote control, photocell, induction loop or motion sensor triggered access. They are often used in the warehouse where heavy-duty protection is not required.



Industrial sliding doors

These doors come in single-leaf and double-leaf versions. It can operate in both the horizontal and the top hung type form. The doors come with improved thermal separation or with burglary protection. It improves ease of access and security of warehouse premises. Depending on the type of industry they are used they can be designed in different forms.



Automatic swing doors

These doors take up minimal space while maximizing opening width. The doors are usually one-directional and used for one-way traffic, either in or out. They can be in the form of can be single, pair, or double doors. They are designed to provide functionality, security and offer an impeccable design, with custom finishes and colours. It is most suited for indoor application in warehouse industries.



PVC strip curtains doors

These doors are mostly used in warehouses where control of the environment is essential. It can be tailored to fit your exact requirements. It is used in warehouses or factories to separate different work areas. With these doors, there is no need for machinery like forklifts or other vehicles to physically open a door or gate to access another area of the workplace.



Automatic Revolving Doors

These doors are specially designed to maintain the temperature climate of the interior of the buildings and cover the highest performance requirements. The doors are one of the most energy-efficient entrance options. The door ensures that the conditioned inside air and the unconditioned outside air remain separated, preventing drought, dust and noise from coming into the warehouse. They come in a



wide variety of sizes and finishes.

Automatic folding doors

These doors are prepared for when space is tight but quick and easy access is necessary. It is automatic but can be operated manually in case of a power cut. They can be installed to a varied size of openings. With both single and bi-parting options, puff insulation & other features these folding doors are available in a wide range with remarkable variations. The doors even include anti-finger trap devices and safety sensor devices.



Conclusion

Automatic doors come in an array of different styles, shapes, colours, finishes and designs. They are also available in tough, sturdy and durable materials such as aluminium, steel, fibreglass, and timber that enhances or compliments warehouse facilities. There are different types of automatic doors available in the market as explained above. choose the TYPE that fits your warehouse specification requirement.

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Requirement and advantages of Fire-rated Doors

The technology has advanced and many new ways have been introduced that offer better and stronger security to the buildings. One of these innovations is fire-rated doors. These are the specialized doors that make sure that the occupants of a building are completely secure from the dangers of a fire. Contrary to the traditional iron or wooden doors, a fire-rated door is more secure and safer in the event of a fire. The doors have a fire-resistance

rating and can be made out of a combination of materials such as glass sections, gypsum, steel, timber, vermiculite and aluminum. These doors are certified by licensed fire door specialists. They are automatically operated with sensors. So in case of any fire accident, the fire alarm starts ringing. They can also be operated using remote controllers.

Requirement of Fire-rated Doors

Fire-rated doors are required in build-

ings to protect occupants, block the spread of flames and smoke, and minimize the overall property damage. As these doors close and open automatically when a fire is detected in the building, these doors are a key component of a building's protection system. These doors help block or delay the spread of heat, smoke and flames through hallways, stairwells and other sections of the building. They also offer heat resistance and allow quick egress from the building in case of an emergency. The building codes enforced in

different countries mandate the fire-resistance rating of the fire door assembly. The hourly ratings include 1-1/2-hours, 1-hour, 3/4-hour, and 1/3-hour, with the maximum rating required of any swinging type fire door being three hours. The specification followed in India is as per IS 3614 part-1 & part-2.

When selecting fire-rated doors for your project, consider the following:

- Fire-resistance-rated frames must have fire-resistance-rated glazing
- Door opening sizes as per your structural integrity requirements
- Jamb depth of door frame relates to wall thickness
- Temperature rise ratings for the maximum rise above ambient temperature on the non-fire side of the door

The Doors must be well maintained and still ensure adequate protection, these doors must be inspected yearly. Most fire doors are designed to be kept closed at all times. Some doors are designed to stay open under normal circumstances and close automatically in the event of a fire. Whichever method is used, the door's movement should never be impaired by a doorstop or other obstacle. The intumescent and smoke-seal bounding of fire doors should be routinely checked, as should the action of the door closer and latch.

Advantages of Fire-rated Doors

- The doors are constructed from better and stronger materials. Several fire-resistant materials are extensively used in the materials of

these doors

- During a fire incident, since the fire doors are self-latching they will contain the effect of fire on the other side giving people enough time to find an escape. Depending on the rate of the fire door it can hold the smoke and fire for 2 to 3 hours
- They can withstand hazardous conditions, they can protect the remaining area of the property from being damaged
- In case of a fire breakout at a laboratory or a building where chemicals are known to be part of the production, these doors will provide everyone protection from hazardous and harmful gas to spread
- They are more acoustically insulating than the traditional doors, which is why they can prevent noise transfer from one room to another
- These doors are available in glazed, paneled, and just about every design that you could think of without worrying about their overall performance
- They are equipped with smoke reduction features that prevent the spread of deadly smoke.
- It provides an aesthetic appeal and modern models are now available in a wide range of styles and finishes

Conclusion

There are several advantages of the fire-rated door that offers long-term safety for the buildings. You need to ensure it is properly installed. A fire-rated door is only effective if it is professionally installed. Each fire door comes with a different set of specifications as far as material, size, shape and parts of the door are concerned. Take experienced professionals to help who can install a fire-rated door as per the specifications approved by the fire department of the specific country.

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Fire-rated Door



CLEANROOM HIGH-SPEED DOORS

Cleanroom high-speed doors for the pharmaceutical industry

The pharmaceutical industries are subjected to tough requirements for meeting hygiene, safety and productivity. Cleanroom high-speed doors in these environments must therefore comply with stringent hygiene standards. The door features continuous seam welds and flush-mount windows to simplify cleaning and sterilization. The doors have automatic controls and safety sensors embedded. They are durable and function for prolonged periods without compromising production and causing costly downtime. The biggest challenge in designing cleanroom doors for the pharmaceutical industry is creating a sturdy door with a high hygienic performance that is easy to clean. There are different types of cleanroom high-speed doors available in the market that

cater to pharmaceutical functional needs.

Benefits of cleanroom high-speed doors

- Hygienic and corrosion-resistant
- Maintains humidity levels
- Highly durable
- High-performance seals
- Superior insulation performance
- Safe and user friendly
- Comes with an automated activation device
- Wide range of finish options

Factors to consider for cleanroom high-speed doors for the pharmaceutical industry

These factors must be considered when selecting cleanroom high-speed doors for the pharmaceutical industry.

Material selection

The most important factor to consider when selecting a cleanroom door is the material used. The steel and GRP doors are now the main choices available for the pharmaceutical industry.

Edges for the door type

There should not be any edges for the dust to settle in, so that it can be very easily cleaned and hygiene can be maintained.

Software system integration

Be aware of the system dependence of the cleanroom door. Many manufacturers market doors that can only be integrated into their systems, avoid these and go for the ones that door systems that can adopt

changes in system parameters.

Door panel thickness

Go for thick panels that can be configured with configured single/double swing-out options

Airtightness

Check the level of appropriate airtightness the door is having. Double-check the Pa pressure value.

Resistance towards chemical cleaning products

Cleanroom doors need to be chemical resistant to the regular usage of cleaning products.

Glazing

The doors must be equipped with features such as shatterproof, safety glazing, meaning if the window breaks, it stays in place and there is no risk of scatter.

Door pulls and hinges

Smaller details such as locks, door pulls and hinges should be of the best quality to assure easy maintenance.

Locking

Go with the lock systems that guarantee the highest security with an interlocking control and blocking.

Safety

Choose the door that complies with the fire regulation criterion of the country.

Once the cleanroom door specifications are decided make sure that all the necessary accessories and parts can be ordered and delivered should there be a problem in the future.

Different types of cleanroom high-speed doors

Today, steel and GRP doors are now the main choices available to the pharmaceutical industry. Manufactured with these materials there are different types of cleanroom high-speed doors available, which are given below.

Cleanroom hinged doors



Hygienic hinged doors are extremely lightweight, strong and durable with a clean aesthetic appearance. The door does not harbour bacteria and is unaffected by moisture and common cleaning chemicals. The doors are particularly suitable in areas that have regular and rigorous cleaning regimes. The door blade is protected by black polypropylene bumpers and is smooth and easy to operate. The door's built-in colour is aesthetically pleasing and requires no maintenance.

Cleanroom sliding doors

Clean sliding doors come with frames that have a smooth non-porous gel coat finish with a built-in color. The door is bacteria protected and is unaffected by moisture. It is also free from organic materials, ledges, recesses or right angles, for flawless hygiene. These doors are extremely strong



and durable, yet light and easy to operate.

Cleanroom rapid roller doors

Cleanroom rapid roller doors include fast operation of opening with programmed auto-closing. These doors feature a controller with absolute encoder positioning and the door panels are thick and come with a large choice of colours. To ensure the safety of personnel around fast action doors, multiple light beams are provided to prevent the door from closing if interrupted. Various activation choices are provided to fully automate the door function. The controller in the door can also be interlocked with fire alarm systems.



Cleanroom swing doors

Cleanroom swing doors come in single or paired swinging types that combine strength and performance with sleek, clean and highly durable fiberglass panels. The pultruded construction ensures a



heavy-duty, completely sealed door ideally suited for pharmaceuticals.

Cleanroom fire doors

Cleanroom fire doors are extremely light-weight and durable with a clean aesthetic appearance. These doors combine safety without compromising high standards of hygiene and durability. A concealed intumescent strip is built into the door during the manufacturing process, maintaining a smooth, seamless profile ensuring that there are no seams or ledges where dirt and germs can gather. The door does not get affected by bacteria or moisture and common cleaning chemicals, making them particularly suitable in areas that



have regular and rigorous cleaning regimes. The door blade is protected by black polypropylene bumpers and is smooth and easy to operate.

Conclusion

There are several advantages and different types of cleanroom high-speed doors available in the pharmaceutical industry. Choose the material and type that suits your project requirement. Take the help of experienced manufacturers and installers.

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Bauporte Gulf unveils Middle East's tallest automatic revolving doors

European entrance system specialist Bauporte Gulf has launched the Middle East's all-glass tallest automatic revolving doors. At five metres tall, the revolving doors are almost double the height of a standard revolving door.

They have been introduced by Bauporte Gulf to fill the gap in the market for high impact and seamless entrance façades for commercial buildings, such as office blocks, hotels and museums. Bauporte Gulf's entire revolving door range is custom-designed and tailor-made for each client and incorporates light-weight stainless steel frames, together with a revolutionary, single-operator, drive system to improve energy efficiency.

The new oversized, revolving door range now available in the Middle East features all-glass, revolving door product options suited to modern and futuristic building designs. However, other models featuring wood finishes or embedded lighting systems are also available and are custom-made at Bauporte's European manufacturing plant in Germany. All width and height variants are also available.

Bauporte Gulf works closely with architects to ensure form and function of every door produced are fully customised and aligned with a building's specific character, creating a cohesive effect consistent with the original design theme.

Commenting on the product, partner at Bauporte Gulf, Paul Haslam, partner said: "Our tall, automatic, revolving doors are custom-made for each client to create a unique entrance façade that's impactful and memorable for all building visitors.

Extra-tall revolving doors are game-changers. Our products enable architects and designers to realise fully-integrated entrance façades where tall, revolving doors are an important part of creating that exceptional building user experience.



Normally, building entrances are a functional utility you pass through without noticing. Our over-sized doors on the other hand, present the opportunity to create something entirely different and special. Due to their size and scale, our doors and entrances create a wow factor on their own. They really catch the eye and can effectively telegraph the quality and design intent of a building. We believe every special building needs a unique entrance and that's our core mission at Bauporte Gulf."

Upcoming Middle East projects for the company include a national pavilion project commissioned by a European government body at Dubai Expo Park and an iconic, futuristic museum project located on Sheikh Zayed Road in Dubai. The company also offers its services to clients throughout the region, and also designs and manufactures integrated pass doors, such as automatic pivot, swing, and sliding doors in a range of styles.



Curved Sliding Doors; Advantages and applications

A curved sliding door consists of a single or bi-part slide automatic door slides that moves radially. It combines comfort and an elegant design that gives a special touch to the entrances of the buildings, where they are installed. Each door type has different radii and degrees of curvature, as

well as the option of mounting semi-circular or circular doors with bi-part openings that are integrated. It comes with different finishes and colours. These doors are available in a complete circle, semi-circle and arc shapes.

Advantages of curved sliding doors

The main advantage of curved sliding

doors is the fact they do not interfere with the space around them. The door slides alongside the next door and so does not take up any more space than its external frame. These doors also provide a beautiful partition between inside and out.

- Customisation according to the exact radius required



Curved sliding doors

- Have large curved glass expanses
- Fine-frame profiles to create door systems with a full-glass appearance
- Integrated reliable self-learning microprocessor control for smooth motion cycles
- Attached with components to monitor the passage area
- No vertical divisions
- Have curved glass that complements your openings
- Have a panoramic clear view all around
- Minimal maintenance

- Insulative

Application of curved sliding doors

Curved sliding doors for exteriors and interiors with an aesthetic that stands out with its remarkable finishing. It is used in;

- Commercial buildings
- Healthcare institutions
- Airports
- Shopping centres
- Hotels
- Restaurants

- Casinos
- Spas

Conclusion

Automatic curved sliding doors are becoming a more and more popular option due to their variant features, such as various appearance, multi-function, energy-savings and environmentally friendly attributes.

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Different types of doors for multipurpose applications

Doors are generally used to separate in exterior interior spaces for convenience, privacy, safety, and security reasons. Doors are also used to secure passages into a building from the exterior, for reasons of climate control and safety. It is of key importance for the architectural design and sustainability of your buildings. The doors can represent an unlimited amount of things depending on the

context. A door serves as a point of welcoming, or as a barrier for protection, a connection between the interior and exterior of buildings. Your door should be chosen to meet a building's functionality criteria. Few of these criterias are load passing, size, security, materials and safety factors. Given below are different types of doors used in multipurpose applications.

Types of doors for multipurpose

applications

Fire-rated doors

Fire-rated doors are the specialized doors that make sure that the occupants of a building are completely secure from the dangers of a fire. The door is more secure and safer in the event of a fire. The doors have a fire-resistance rating and can be made out of a combination of materials such as

glass sections, gypsum, steel, timber, vermiculite and aluminum. These doors are certified by licensed fire door specialists. They are automatically operated with sensors. So in case of any fire accident, when the fire alarm starts ringing, they can also be operated using remote controllers.

Fire-rated doors are required in buildings to protect occupants, block the spread of flames and smoke, and minimize the overall property damage. As these doors close and open automatically when a fire is detected in the building, these doors are a key component of a building's protection system. These doors help block or delay the spread of heat, smoke and flames through hallways, stairwells and other sections of the building. They also offer heat resistance and allow quick egress from the building in case of an emergency. The building codes enforced in different countries mandate the fire-resistance rating of the fire door assembly. The doors must be well maintained and still ensure adequate protection, these doors must be inspected yearly. These doors are used in residential, commercial and industrial applications.



doors have automatic controls and safety sensors embedded. They are durable and function for prolonged periods without compromising production and causing costly downtime. The biggest challenge in designing cleanroom doors for the pharmaceutical industry is creating a sturdy door with a high hygienic performance that is easy to clean.

These doors come with a clean aesthetic appearance. The door does not harbour bacteria and is unaffected by moisture and common cleaning chemicals, making them particularly suitable in areas that have regular and rigorous cleaning regimes. The door blade is protected by black polypropylene bumpers and is smooth and easy to operate. The door's built-in colour is aesthetically pleasing and requires no maintenance. Today, steel and GRP doors are now the main choices available to the pharmaceutical industry.

Acoustic doors

Acoustic doors are soundproof that have a standard appearance. The doors have specific soundproofing seals at various points on the door to ensure the sound tightness of the enclosed space. Depending on the insulation requirements required by the acoustic conditioning of a space, either acoustic doors or soundproof doors should be used with different insulation levels and they should be approved and certified. Finally, considering the aesthetic requirements of the room, you may install acoustic doors or soundproof doors with glass visors or any other hardware or accessory.



These doors are designed to reduce the spread of noise and vibrations between rooms. They aim to insulate the sound within a room, which is achievable due to insulation engineering within the body of the door. They act as a barrier that restricts the vibration of sound. The materials with the optimum soundproofing insulating qualities that reflect and absorb sound include Steel, Timber, Aluminium, and PVC. There are two standard acoustic ratings for acoustic doors. There are two major versions available, the high-performance version and the low-performance version. The high-performance version has a noise reduction value of 44dB while the medium performance version has a noise reduction value of 34dB.

Sliding doors

Sliding doors offer numerous advantages for both industrial and commercial properties. Whether as an interior or exterior entryway, sliding doors can serve both practical and attractive needs. The ergonomic design of sliding doors strikes the perfect balance between easy operability and functionality. Gliding through a smooth parallel track, sliding doors also prevent any jams or creaks that may happen in case of standard door designs.

In modern-day, space-cramped urban dwellings, sliding doors are a boon thanks to their practical design. Unlike traditional doors that swing open and require hinges, these doors slide seamlessly on a horizontal track. As the arc is completely taken out of the context, you end up saving space. Where hinged doors require space in which to



Cleanroom doors

The cleanroom door is designed specifically for bio-pharmaceutical and GMP facilities. It features continuous seam welds and flush-mount windows to simplify cleaning and sterilization. The



swing open, sliding doors operate sideways. These doors are not just a great practical feature, they also provide a number of aesthetic benefits. With a wide variety of styles and designs available, sliding doors come in a range of types, including those that can open round corners, fold up or slide straight.

Curved sliding doors

A curved sliding door consists of a single slide or bi-part automatic doors that moves radially. It combines comfort and an elegant design that achieves a special touch to the entrances of the buildings where they are installed. Each door type has different radii and degrees of curvature. It comes with the option of mounting semi-circular or circular doors with bi-part or single slide openings. Its design also allows adapting the measurements to the space it requires, as well as giving it different finishes and colours which manage to perfectly integrate its functionality with its value. These are available in a complete circle, semi-circle and arc shapes.



The main advantage of curved sliding doors is the fact they do not interfere with the space around them. This type of door is used in commercial buildings, healthcare institutions, airports, shopping centres, hotels, restaurants, casinos and spas.

High-speed door

A high-speed door is a very fast door with opening speeds of up to 4 m/s, mainly used in the sectors where the speed of a door has an effect on the speed of production logistics, temperature and pressure control. High-speed clean room doors are used in industrial and pharmaceutical sectors with special curtain and stainless steel frames.

The powerful high-speed doors have a smooth surface structure and no protruding edges. Therefore, they can be easily cleaned and depositing of particles is largely excluded. High-speed doors are made to handle a high number of openings, which approximately 200,000 a year, depending on customisations it can be increased further. They must be built with heavy-duty parts and counterbalance systems for speed enhancement and emergency opening functions.



Steel doors

Steel doors prove to be some of the most durable and long-lasting options

on the market. These doors are built to withstand the elements and provide you with years and years of steady service. Most steel doors are manufactured using 20-26 gauge steel which is quite sturdy and reliable. Steel provides a superb option for maximizing the amount of energy and it has been found that steel actually comes with higher insulation. Steel doors consist of either a polyurethane or polystyrene core with a steel skin over the top.

Steel doors come in a range of styles and offer a variety of aesthetic and practical advantages. They provide attractive entrances; long-term security; fire, blast and sound resistance; ease of cleaning; and corrosion resistance. Stainless steel may frame a glass door, clad a wood or metal door can also be used for an overhead door. A wide variety of finishes are used on stainless steel doors including traditional polished finishes, textures, decorative raised designs, and colours. Some of the most common applications for stainless steel doors are office building and store entrances, decorative interiors, medical facilities, prisons and detention facilities, factories, warehouses, storage facilities, swimming pools, private residences, public housing, tunnels, and transit facilities.



Aluminum doors

Aluminum doors are widely used in commercial properties for they are durable and add strength. The durability, strength, and stability of doors made from aluminum are their biggest advantage. These doors blend well in structures that are already fitted with aluminum windows. They blend together well, creating an exceptionally beautiful finish. Another key advantage of these doors is that they are able to withstand any climatic conditions. No matter where you live, be it in a coastal or heated region these doors have proven to be strong and weatherproof. They can withstand extreme temperature and constant changes in temperature.

A great advantage of building owners who use these doors is that they will not have to maintain them often. Aluminum provides exceptional weather resistance and superior thermal and acoustic insulation. Its reliability makes it a premium entrance door material. There is a lot of leeway and the freedom to design windows and doors without any inhibitions. Aluminum is flexible and can be molded and customized according to the specifications of the builder easily.



Flush doors

Flush doors have plain facings on both sides. They can be used for interior and exterior applications. The doors may have a solid, hollow or stave core. If the core is solid then low-density particle board or foam often being used to fill the space within the door completely, it



may be supplemented with a type of laminate or plywood on each side.

A flush door has a basic structure composed of a solid block board core, vertical stiles, and horizontal rails that create a pre-fixed frame. The block board is composed of wooden strips that are placed edge-to-edge and sandwiched between veneers, then bonded under high pressure and temperature using a synthetic resin. So in a simpler term, it is a door that is made of a timber frame covered with ply from both sides and then the hollow part inside is filled with rectangular blocks of softwood. Then a decorative finish is given by fixing the veneer on the top. It provides an attractive appearance and is simple in design. The doors are also resistant to borer, termite and fungus.

Fiberglass doors

Fiberglass is strong, light & non-flammable and has high tensile strength. Fiberglass doors work well in



almost any climate, even in extreme cold and damp conditions. These doors do not warp, crack, or rot. The doors reduce heat transfer and improve energy efficiency. This can make a big difference in your energy bills as well as improve comfort by helping to maintain the temperature.

Fiberglass doors are durable and very resilient. Manufacturers fit them with secure locks. The doors require little to no upkeep, regular cleaning with a damp cloth should be sufficient. If your door faces the beating sun, or has a dark finish, a restorative coat of clear marine varnish can protect it and keep it looking fresh. They feature fully insulated cores designed to reduce thermal transfer between outdoors and inside, giving you better protection against cold and heat.

FRP doors

These types of doors are manufactured on high press & polyurethane foam injection machines. FRP as a material is very tough & rigid and resistant to extreme weather and there is no aging of the material, as a result, it retains the same luster, strength and rigidity over a very long period. FRP moulded doors are available in many colours and finishes including a natural wood finish in the market. The standard door thicknesses are 30/35 mm and are available with fire-retardant properties. These doors can also have two leaves of 1.5 mm thickness. The leaves are moulded over a core material forming a sandwich panel.

FRP door shutters are made with inbuilt



color, single-piece casting and smooth glossy finish hence practically require no maintenance except for cleaning with a plain cloth once in a while or cleaning with water. Moreover, as the doors are made with inbuilt color, it has very long-lived without fading of color and requires no repainting over a regular interval

Glass doors

Glass elements have become extremely popular among architects and interior designers. The use of glass for interior office doors and partitions ensures a bold and unique interior design, while also offering a refreshing change of style compared to traditional walls and barriers. Interior glass doors, whether clear, tinted, low-iron or satin, will not block natural light. By installing glass



doors, you can increase light flow, improving the appearance and atmosphere. The transparency of glass doors allows optimal amounts of natural light to pass through space.

Conclusion

There are different types of doors available in the market today. It's extremely important to choose a manufacturer

who offers both a variety of styles and a quality line of entry doors. A quality door will withstand harsh and unpredictable weather and provide security for building members.

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STARC Systems Launches FireblockWall™, the First Modular Reusable One-Hour Fire-Rated Temporary Containment Solution

STARC Systems, a manufacturer of temporary modular wall containment solutions used for occupied renovations and infection isolation, today unveiled FireblockWall™, the first modular reusable one-hour fire-rated temporary containment system. STARC will begin taking orders in June with deliveries starting in early summer.

"Our customers have been requesting a one-hour fire-rated containment solution," said Bruce Bickford, VP of Product Development at STARC Systems. "Facility managers have a tremendous responsibility during an occupied healthcare renovation project. If something goes wrong and the Joint Commission, State Inspector or Fire Marshal investigates, it falls on the facility manager to explain every detail. STARC uses customer feedback to inform our product innovations and solve their most challenging needs. FireblockWall™ relieves our customers from wondering if they're meeting the proper safety requirements."

"After making the switch from traditional containment methods such as poly and sheetrock to STARC's FireblockWall™ panels, our team noticed a drastic difference in the time we spend setting up containment in the field," said Adam Bouffard, Construction Supervisor, Hebert Construction. "Not only do these panels offer a safer, more secure worksite, but they also provide us with a professional-looking, durable, reusable containment solution for use on future projects."

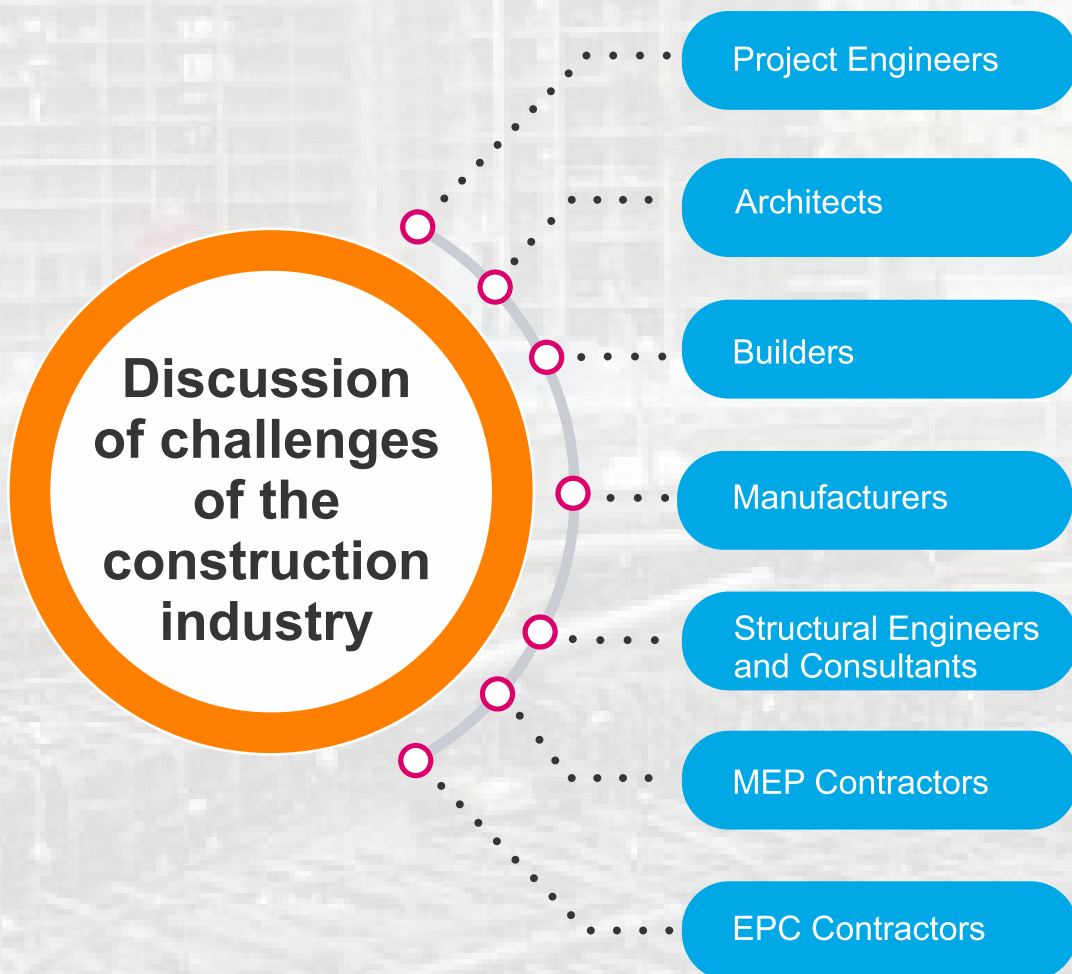


Fire-rated corners, doors and accessories are available when the project requires it, including handle sets with multiple lock options depending on the level of security needed.

"STARC is committed to delivering value beyond our customers' expectations while addressing long-standing containment challenges in the most sensitive of occupied healthcare environments," said Chris Vickers, President and CEO of STARC Systems. "We set the standard for temporary modular containment with RealWall™ and LiteBarrier™ and now we're thrilled to raise the bar again by introducing FireblockWall™, the first and only reusable one-hour fire-rated solution."

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