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**YOUR PASSIVE
FIRE PROTECTOR**

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ABOUT US

VULCAN INDUSTRIES LLC has been growing to become a substantial player in the Design and Fabrication of Fire Rated Doors & Security Doors. Targeting, urbanizing and high growth markets, **VULCAN** has a proven track-record of providing competitive, high-quality products specifically tailored to meet and surpass the requirements and demands of our customers. Our organic growth is further fuelled by an increased global demand for durable, superior quality products.

We are a one stop shop that provides clients a total package from consultation until installation of the final product. The raw materials used to manufacture our products are under strict selection from well-known manufacturers whose supplies undergo strict quality control and confirms to international standards. We have always believed in providing comprehensive, reliable and efficient pre-sales and after-sales services to our customers. Along with our own warehouses and transportation team, we have high caliber individuals in each area of expertise to achieve total customer satisfaction which is the core value that our organization stands behind.

TESTED, CERTIFIED & QUALIFIED - to the below Standards

- > NFPA 252, NFPA80
 - > ANSI UL 10B
 - > ANSI UL 10C
 - > UL752
 - > ASTM F 3038
 - > BS 476-22:1987
 - > BS EN 1634-1:2014+A1:2018
 - > BS EN 1364-1:2015
 - > BS 476-20:1987
- The National Fire Protection Association
 - Standard for Fire Tests of Door Assemblies
 - Positive Pressure Fire Tests of Door Assemblies
 - Standard for Bullet Resistant Equipment
 - Standard test method for timed evaluation & Forced Entry Resistant System
 - Fire tests on building materials and structures. Method for determination of the fire resistance of non-loadbearing elements of construction
 - Fire resistance and smoke control tests for door and shutter assemblies, openable windows and elements of building hardware.
 - Fire resistance test for door and shutter assemblies and openable windows
 - Fire resistance tests for non-loadbearing elements. Walls
 - Fire tests on building materials and structures. Method for determination of the fire resistance of elements of construction (general principles)

Approvals:

AWI/ISO 45001/ISO 9001: 2015/ICV/CMW/PGC/ANSI/NFPA
In U.A.E – Approved by All Civil Defence Authorities
(Abudhabi/Dubai/Ajman/Sharjah/Fujairah/UAQ/Ras Al Khaima)
Oman ROP/ Bahrain EOD / Kuwait fire dept / Qatar Civil defence



HOLLOW METAL DOORS FIRE RATED & NON FIRE RATED

Vulcan's Fire rated steel doors are designed for all the residential, commercial and industrial applications. Vulcan Fire rated Steel Doors are made out of Double skinned galvanized steel with honeycomb or Rockwool Infill which provides insulation. Available in both Single and Paired Configurations. Vulcan fire rated steel doors provides a contractor friendly and cost effective means of Fire Protection. Fire Rating upto 180 Mins as per UL Standards & upto 240 Mins in BS Standards.

SPECIFICATIONS

FRAMES

Frames are made out of high quality Steel. Steel frames could be made of different GI Sheet thicknesses 1.2mm/1.5mm/1.8mm/2.0mm/3.0mm. Vulcan Steel Frames carries high quality finish with its perfect welding techniques, which leaves with perfect corners, anchor bolt reinforcements. All Frames are manufactured with specified ironmongery reinforcements.

SHUTTERS

Shutters are made out of GI Steel with standard/tested thickness of 1.0mm/1.2mm/1.8mm/3.0mm. Shutters are made with Honeycomb/Rockwool with Steel Stiffeners providing the thermal insulation. GI Steel Frames & Shutters are powder coated as per customer specifications, in Textured/Glossy/Metallic/Wood Finishes.

GLAZING

Door glazing could be provided as per the customer requirement or tested specifications with Georgian wired Glass or Clear Glass possessing fire rating properties with galvanized steel frames.

HARDWARES

Fire Rated/Tested Hardware complying to UL/ANSI,BS/CE can be accommodated.

TESTED & CERTIFIED:

ANSI/UL 10B – Fire Test Assemblies

ANSI/UL10C – Positive Fire Test for Assemblies, also meet the requirement of NFPA 252

BS 476 P22 1987-Fire tests on building materials and structures. Method for determination of the fire resistance of non-loadbearing elements of construction.

APPLICATION : Staircase, Electric Rooms, Pump Rooms, Corridors etc.



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WOODEN DOORS

FIRE RATED & NON FIRE RATED

Vulcan Fire Rated and Non Fire Rated Wooden Doors are designed for use in residential & commercial Applications. Wooden Doors are applicable in both single & Paired Configurations. Wooden Doors are mainly used in the interiors. Different species of Hardwoods, Veneers are used to provide unique finishes to the doors. Other means of finishes such as Laminate and paint also can be used. Our Fire Rated Wooden Doors (NFR-upto 55dB) can achieve acoustic rating upto 35dB.Vulcan Fire Rated are available from 30 Mins to 120 Mins Fire rating as per BS Standards & upto 90 Mins in UL Standards.

SPECIFICATIONS

FRAME :

Frames are made with Solid Hardwood of density varying from 600kg-800kg/m³ depending upon the fire rating & specification requirements. For Fire rated doors frames would be equipped with intumescent protection. Frames can be polished and painted.

SHUTTERS :

Fire Rated Shutters are made with 3 layered Particle Chip Boards, 5 Ply Proprietary Blanks & Composite Blanks which has been tested & certified. Non fire rated shutters can be made with Hollow core, Solid Chip board, Semi solid Door Blanks. Door thickness varying from 35mm to 44mm in NFR and 44mm to 64mm are available depending on the fire rating requirements. Shutter finishes can be Wood Veneered & polished, Laminated and painted.

HARDWARES :

Fire Rated/Tested Hardware complying to UL/ANSI, BS/CE can be accommodated.

TESTED TO :

- BS 476 P22 1987-Fire tests on building materials and structures. Method for determination of the fire resistance of non-load-bearing elements of construction.
- CAN4 S104 (1985): NFPA 252 (2008): UL 10(c) (2001): UL 10(c) (2009): CAN / ULC, S104 (2010): NFPA 252 (2012)

APPLICATION : Room Entrance ,Interior Doors, Office ,Pantry,WC.





NON- LOAD BEARING FULLY GLAZED PARTITIONS (FIRE RATED)

Fire rated glazed partitions are designed for use in both Commercial and residential areas. Glazed Partitions provide appropriate lighting as well as fire safety and security. The use of fire resistant glazing in modern buildings allows light and vision, improving the user experience while protecting against the threat of fire.

SPECIFICATIONS

FRAMES

Metal Frames are made out of high quality Steel. Steel frames could be made of different GI Sheet thicknesses 1.5mm/1.8mm/2.0mm. Vulcan Steel Frames carries high quality finish with its perfect welding techniques, which leaves with perfect corners, anchor bolt reinforcements. All Frames are manufactured with specified ironmongery reinforcements

GLAZING

Tested & Certified Fire Rated Glasses with appropriate glazing system is used for Glazed Partitions.

TESTED & CERTIFIED:

EN 1634-1 90mts Integrity, Fire tests on building materials and structures. Method for determination of the fire resistance of non-loadbearing elements of construction.

APPLICATION : Staircase, Electric Rooms, Pump Rooms, Corridors etc.



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FULLY GLAZED DOORS WITH SIDE & TOP LIGHT

Fire rated Fully Glazed Double Doors are designed for use in both Commercial and residential areas. Glazed Doors provide appropriate lighting as well as fire safety and security. The use of fire resistant glazed doors in modern buildings allows light and vision, improving the user experience while protecting against the threat of fire. Fire rating upto 120 Mins, (Integrity)

SPECIFICATIONS

FRAME :

Metal Frames are made out of high quality Steel. Steel frames could be made of different GI Sheet thicknesses 1.5mm/1.8mm/2.0mm. Vulcan Steel Frames carries high quality finish with its perfect welding techniques, which leaves with perfect corners, anchor bolt reinforcements. All Frames are manufactured with specified ironmongery reinforcements.

SHUTTERS :

Shutters are made out of GI Steel & Rockwool with Monolithic or DGU Glass

HARDWARES :

Fire Rated/Tested Hardware complying to UL/ANSI, BS/CE can be accommodated.

GLAZING :

Tested & Certified Fire Rated Glasses with appropriate glazing system is used for Glazed Doors

TESTED TO :

BS 476 P22 1987-Fire tests on building materials and structures. Method for determination of the fire resistance of non-loadbearing elements of construction.

APPLICATION : Room Entrance ,Interior Doors, Office ,Pantry,WC.





STEEL ACCESS DOORS

Vulcan Access Doors, both Fire Rated and Non-Fire Rated, use to conceal the equipment or parts of the building that are not often used. Vulcan Access Panels are in finished construction according to the client requirement be it vertical or horizontal. Vulcan Access panels will maintain a seal that is air-tight in the case of a fire and will prevent smoke, heat, and fire from seeping out. These come both in outward and upward swinging and you can also determine if you want them to have automatic or manual latch release. They are designed for any other purposes and are essential for safety. Fire rated access panels are also essential in making the building LEED certified. This certification is both economically and environmentally friendly and lowers energy costs.

SPECIFICATIONS

FRAMES

Frames are made out of high-quality Steel. Steel frames are made out of ASTM Grade GI Sheet of thicknesses either 1.5mm/1.8mm/2.0mm. Vulcan profiled Steel Frames are strong enough for the increased level of protection and carries high quality finish with its perfect welding techniques, which leaves with perfect corners, anchor bolt reinforcements. All Frames are manufactured with specified ironmongery reinforcements.

HARDWARES

High Security Ironmongeries

TESTED & CERTIFIED:

The Steel Access Doors Quality for the following rating according to EN1643-1 =AI 2018 and BS476 P22(1987) standards.

APPLICATION : High security areas, HVAC Access





STEEL VISION LITE KIT FRAME

► MODEL: DVP-B

Application - Allowed to be used in listed doors with listed fire rated glazing panels.

Vision kit Cut Out - 1.5mm thick Galvanized Steel C-channel perimeter capping fitted to the door leaf cut out by welding. The listed glazing panel must be fixed using glazing tapes supported on setting blocks with the vision kit frame fixed using M4 x 50mm steel screws spaced nominally at 160mm c/c.

MAXIMUM SIZES

Model	Size (w x h), Area
DVP-B	200mm x 600mm/ 0.12 m ² / 184 SR.

FIRE RATINGS

The product noted above has been tested and qualified per UL 10C for a 3 hour (180 Minutes) Positive Pressure Fire Rating. Also meets the requirements of UL 10B and NFPA 252.

► APPLICATION : Office ,Pantry,Kitchen, etc.





BULLET RESISTANT DOORS

Vulcan, the only own manufactured and own tested bullet proof door manufacturer in UAE, produce high security and quality bullet proof doors. Vulcan Industries had been making high-security metal bullet proof doors for secure entryways to corporate and private customers. Vulcan Bullet Proof doors are exceptionally strong, enabling them to withstand heavy impact, including bullets. The doors look like regular doors, can be installed in an hour and they have a unique locking mechanism. Vulcan bullet proof doors are reliable and will stop a high capacity round and will stop an assault weapon. We offers solutions to customers who are looking to integrate bullet proof doors into existing architectures.

SPECIFICATIONS

FRAMES

High Quality Strong GI cladded Armoured Frame

SHUTTERS :

56 mm thick high quality strong Armoured Metal Door with Reinforcements

HARDWARES

High Security Ironmongeries

TESTED & CERTIFIED:

Intertek, York, Pennsylvania as per UL 752, Level 3, 5, 8-7.62mm Rifle Lead Core Metal Copper Jacket Military Ball (.308 Caliber)

Other Ratings:

Comply to NIJ 3, US DOS SD-STD-02.01 Rifle AP.308 NATO M61, ASTM F 1233 7.21 M80 NATO, HPW TP 0500.02 Level D, DIN EN 1063 BR6, BS5051 BSI R2, AS/NZ 2343 R2, DIN 52-290 C5 SF and C5 SA.

UL752 (Level 1 to 8)

NIJ 018.01

SD-STD-02.01 (SD-Rifle, .30, 7.62 NATO)

Other Ratings as Upgrade:

Fire Rating UL 10 C for 180 minutes



APPLICATION : High security areas



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BLAST RESISTANCE DOORS

Vulcan Steel Blast Resistance doors are offered for wide range of usage for vital protection of life, infrastructure & assets from intentional or accidental blasts. It is more resistant to expansion, as it bends into the building to absorb the pressure. Vulcan Steel Blast doors incorporate fire resistance qualities, low transfer of heat and high melting point. It can prevent propagation of explosion or mass detonation to provide protection for personnel and valuable equipment. Assembly comprised of a door and a frame or a glazing system that is rated to resist a specified blast peak pressure and impulse to a required performance level. It will meet the projected blast and performance requirements. Our Blast Resistance doors range from 2 psi to 101.52 psi (up to 7 bar) and the pressure rating achieved based on the seated and unseated position of the leaves.

SPECIFICATION

FRAME :

High Quality Strong GI cladded heavy metal section

SHUTTERS :

High quality strong Metal Door with Reinforcements

HARDWARES :

High Security Ironmongeries

TESTED, CERTIFIED & STANDARDS

DNV-GL as per ASGC guidelines-Design of Blast Resistant Buildings in Petrochemical Facilities, Second Edition and AISC-9th edition

APPLICATION : High security areas





FIRE RATED ROLLING SHUTTERS

Vulcan product range consists of fire protection solutions for oversized openings too, with its UL listed Rolling Steel Shutters, Fire & Smoke Curtains manufactured by Miacasa Steel Industries under the brand name of Miacasa.

Miacasa has been known for innovative, reliable and secure solutions in the sector of industrial and Residential entrance automations and has been working with a great desire towards designing, fabrication and installation of industrial shutters, residential garage doors, Automatic gates and barriers.

Miacasa Fire Rated Rolling shutters (both insulated and single skin) are tested as per UL 10B and approved by UAE civil defense and other major fire departments in GCC

Miacasa MC-777 FR single skin rolling shutters are tested up to 3 hours with a maximum size of 12 meters wide by 8 meters high

Miacasa MC-999 FR double skin rolling shutters are tested up to 2 hours with a maximum size of 7 meters wide by 10 meters high

▶ **TESTED, CERTIFIED & STANDARDS : UL 10B FOR FIRE RATING OF LISTED TO UAE CIVIL DEFENCE AND MAJOR GCC FIRE DEPARTMENT**

▶ **MIACASA PRODUCTS RANGE ALSO CONSISTS OF :**

- > NON FIRE RATED STEEL ROLLING SHUTTERS
- > ALUMINIUM ROLLING SHUTTERS
- > STAINLESS STEEL GRILL ROLLING SHUTTERS
- > LATERAL SLIDING SHUTTERS
- > POLYCARBONATE ROLLING SHUTTERS
- > GI / ALUMINIUM PERFORATED ROLLING SHUTTERS





HIGH SPEED DOOR

Our high-speed doors are crafted to revolutionize the way you manage traffic flow in a multitude of environments. From departmental stores to supermarkets, storage facilities to healthcare establishments, our PVC High-speed doors are the epitome of swift and seamless transitions. Designed with precision and engineered for performance, our high-speed doors offer unparalleled speed and reliability. No longer will you have to sacrifice energy efficiency for speed, as our doors are meticulously crafted to ensure swift transit without unnecessary energy wastage.





SLIDING DOORS

Sliding doors have a few functionalities. Space constraints are usually the reason behind placement of these doors but aesthetic appeal also plays a major role at times. Glazed sliding doors are widely used in commercial and residential buildings and entrances and more an interior design item than a functional requirement.

The doors are manufactured similar to our standard fabrication techniques with runners fixed on channels at the bottom and rails with bearings on the top of the door. Frames are ideally overhead rail on which the doors are hang and can be used for single or double run applications. floor channels are also part of the assembly which can be fixed by screws or incorporated in concrete.

SPECIFICATIONS

SHUTTER :

Wooden shutters are made with hollow core or various other cores depending on site requirements. Steel Shutter are made with 1.2mm-1.5mm thick galvanized steel as outer skin, infill being rockwool or honey comb, Glass doors are as per customer Specification/ Requirement

HARDWARES :

Sliding Mechanisms can be manual as well as automatic with motorized controls. Depending on the security requirements, Sliding doors can be designed to achieve concealed mechanisms so that the security & aesthetics are not compromised.

APPLICATION : Office Entrances, Hotel and Store, Used as patio doors, Closet Doors and room dividers Ware house entrance





X-RAY PROTECTION DOORS

Vulcan X-Ray Protection Doors are designed to meet the requirement of NCRP (National Council on Radiation Protection) for use in industrial & hospital applications. X-ray doors provide a safe environment for hospital workers, front liners and alike as well as individual operators, thus minimizing the radiation exposure to individuals.

Available in single, double panel or sliding configuration, Vulcan X-ray Doors are designed to suit custom requirement based on the amount of radiation present in the area. Vulcan can also build to fit your specific needs in custom door sizes, designs and configurations of hardware. Both Steel and Wooden Doors are tailored made to suit various customer and project requirement.

SPECIFICATIONS

FRAME :

- Wooden Frames are made with high density solid wood and then lined lead (1mm to 6mm thick) based on the radiation count.
- Steel Frames are made with 2mm – 3mm thick galvanized steel and lead lined behind the frames in order to halt radiation leakage.

SHUTTERS :

- Wooden Shutters are made with particle chip board, mineral core and composite cores. They are then lined with lead (1mm-6mm thick) based on the radiation count.
- Steel Shutters are made with 1.5mm -2.5mm thick galvanized steel as outer skin, infill being rockwool and then lead-lined based on the level

HARDWARES :

- Fire rated hardware complying to ANSI & British Standards can be accommodated.
- Security hardware starting from the range of single point locking to five point locking system is also available.
- Any customer specific lock system can also be engineered into Vulcan Doors
- Sliding Mechanism can be manual as well as automatic with motorized controls. Depending on the radiation count lead line sealing are taken into account.

APPLICATION : Laboratories, Xray & Scanning Rooms, Clinics, Airports and Industrial Applications, etc.





ACOUSTIC DOORS

Acoustic doors basically act like sound barriers. They are widely used in cinemas and theatre complexes, recording studios, night clubs etc. to complement other sound proofing techniques. These days all doors are expected to have a minimum acoustic property to cut down general noise just like walls. The doors are rated based on the sound that they prevent from passing through them. The rating is in dB (decibels) or STC (Sound Transmission Class). Acoustic doors are made in accordance with BS EN ISO 140: Part 3: 1995.

SPECIFICATIONS

FRAME :

- Wood Frames are made with Solid Hardwood of density varying from 600kg-800kg/m³ depending upon the fire rating & specification requirements. For Fire rated doors frames would be equipped with intumescent protection. Frames can be polished and painted.
- Metal Frames are made out of high quality Steel. Steel frames could be made of different GI Sheet thicknesses 1.5mm/1.8mm/2.0mm. Vulcan Steel Frames carries high quality finish with its perfect welding techniques, which leaves with perfect corners, anchor bolt reinforcements. All Frames are manufactured with specified ironmongery reinforcements.
- Frames would be equipped with required acoustic Seals as per the dB ratings

SHUTTERS :

Wooden Shutters are made with Particle Chip Boards, Proprietary Blanks & Composite Blanks which has been tested & certified. Blanks. Door thickness varying from 35mm to 44mm in NFR and 44mm to 64mm are available depending on the fire rating requirements. Shutter finishes can be Wood Veneered & polished, Laminated and painted. Acoustic rating achievable upto 35dB.

Steel Shutters are made out of GI Steel with standard/tested thickness of 1.2mm. Shutters are made with Rockwool with Steel Stiffeners providing the Shutters would be equipped with required acoustic Seals as per the dB ratings.

APPLICATION : Theatres, Auditoriums, Recording Studios, Halls etc.





LOUVER DOORS

Wooden Louver shutters are made out of static solidwood louver blades of 11 thick, 123 width x Length according to the width of shutter. Each door has two sections, one of the top and one on bottom. the section is filled with small slats of wood to create an angled effect. This door is perfect for closets and pantry or storage areas. It can also be used for interiors to allow free flow of light and air.

Steel Louver shutters are made out of horizontal static GI Z shaped Sheet louver blades of 1.5mm thick x 100mm wide x Length according to the width of shutter. Steel Sand trap louvers are specially designed to protect air intake from wind-driven sand. Our unique design combines rows of vertical blades to separate sand from the air stream. This and is then safely channelled away on the sloping sill of the louver. Shutters are coated with primer and Powder coated in any colour from the standard range of RAL palette.

► SUSTAINABILITY

> Manufactured under ISO 9001:2015 certification

Typical applications : This door is perfect for closets and pantry or storage areas. it can also be used for interiors to allow free flow of light and air.

Residential, Commercial building, Hospitals, School and others.

Relevant Standards : BS 1245-2012, BS 476 PART22, BS EN 12209, BS EN 8424, BS EN 1303.

STEEL FABRICATION :

Apart from Fire rated and Non Fire rated Doors, Rolling Shutters, Curtains etc, Vulcan factories are equipped to fabricate all types of structural and sheet metal fabrications classified as under :-

► APPLICATION : Pump rooms, Server rooms



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SAND TRAP LOUVER DOORS

Vulcan Sand trap Louver Doors are ideal doors for locations where natural ventilation is required and at the same time probability of dust accumulation is also high. Vulcan Sand trap Louver Door is best solution you can find in the market for Isolated and windy areas where substations and transformers are required. Available in single or double panel configuration with frames prepared for installation in Masonry or Steel Construction. Our Vulcan Sand Trap Louver Doors are strong and rigid in construction, and applicable for both industrial and commercial purposes. Our Doors are designed to separate intake air from sand and dust particles from intake air for ventilation purposes. Hang by heavy-gauge steel hinges with available hardware configurations like custom made all-drops and tower bolts. Louvers and frames are constructed of galvanized steel. Vulcan can also build to fit your specific needs in custom doors sizes and configurations of hardware.

SPECIFICATIONS

FRAME :

Normally constructed with 1.5mm thick galvanized steel and can go up to 3mm as per requirement.

SHUTTERS :

Normally constructed with 1.2mm galvanized steel and can go up to 3mm as per requirement.
Louvers

Normally constructed with 1.2mm galvanized steel and can go up to 2mm as per requirement. They are also provided with holes to empty the filtered sand that is accumulated.

HARDWARE :

- Custom made hardware like all-drops and tower bolts are possible
- Any customer specific locking can also be engineered in to Vulcan Doors. Bird screens and fly screens are additional options available with Vulcan Sand Trap Louver Doors.

APPLICATION : Shopping malls, Offices, Commercial buildings





SECTIONAL OVERHEAD DOOR & LOADING SYSTEMS

Vulcan's Industries provides a wide range of Loading bay solutions like Sectional Over head Doors, Dock Levellers, Dock Shelters etc...

Our Loading equipments are designed and Manufactured with high end quality and tested to meet international quality & safety standards

▶ **LOADING BAY EQUIPMENT CONSISTS OF -**

SECTIONAL DOORS

COLD STORAGE DOORS

DOCK LEVELLERS

DOCK SHELTERS

DOCK HOUSES

MECHANICAL FOLDING TRACKS

SCISSOR LIFTS

MINI MECHANICAL DOCK LEVELLERS

MOBILE RAMPS



▶ **APPLICATION :** Shopping malls, Commercial buildings, Warehouses





FORCED ENTRY DOORS

Vulcan Forced Entry | Security Rated | Resistance Class Rated doors are manufactured in exclusive quality and can withstand entry from highly skilled attackers using heavy duty tools such as crowbars, hammers, axes, saws steel cutting pliers and power drills. The door is so strong and secure that during testing, the engineers at lab gave up trying to penetrate the door after 90 minutes of machine time. Vulcan Forced Entry doors can be upgraded to include ballistic resistance and fire resistance. Vulcan Security Rated doors are designed to help create a highly secure environment for areas with elevated threat profiles or security challenges, providing complete protection against burglary or forced entry. Vulcan Resistance Class doors are easy to operate yet strong enough to protect from any external threat.

► SPECIFICATIONS

FRAME :

Higher Gauge Thickness GI Sheet.

SHUTTERS

56 mm thick high-quality strong Metal Door with Reinforcements

TESTED TO :

Intertek, York, Pennsylvania as per ASTM F3038 Standard Test Method for Timed Evaluation of Forced-Entry-Resistant Systems

Equivalent Ratings

US Department of State SD-STD-01.01 Forced Entry Resistance of Structural Systems.

EN 1627: 2011 RC6-Electric Tools 20-50 minutes

LPCB LPS 1175 SR5-Tool Category D+

Other Ratings as upgrade

UL10C Fire Rating for 180 Minutes



► APPLICATION : High Security areas



SMOKE CURTAINS AND FIRE CURTAINS



VERTICAL SMOKE CURTAINS

Vertical smoke curtains are typically used to close off openings from standard doorways to larger atriums. They are located within the ceiling above the opening and are deployed using the gravity fall method to prevent smoke from spreading through the building.

This allows occupants to evacuate more easily and firefighters to more quickly enter the building.

Features and Benefits

Economical Solution (Simple, cost effective and low maintenance)

100% Gravity Fall Safe Descent

Lightweight

Design Solution

Electrically operated fire/heat resistant barrier

Invisible in normal conditions

Allow Architectural freedom with space usage

Fire Resistance Level

Fire integrity (E), the curtain's ability to stop the spread of fire, was tested up to 600 °C for 241 minutes.

Product Compliance

Smoke curtains are tested to BS EN 12101-1 and manufactured in conjunction with EN 13241-1 and EN 13501-2 and are classified as CE identification.



ELEVATOR CURTAINS

Elevator smoke curtains perform the vital function of blocking smoke from entering and exiting through elevator doors. In the event of a fire, this can stop the smoke from spreading quickly to other floors of the building.

Features and Benefits

Economical Solution (Simple, cost effective and low maintenance)

100% Gravity Fall Safe Descent

Lightweight

Design Solution

Electrically operated fire/heat resistant barrier

Invisible in normal conditions

Allow Architectural freedom with space usage

Fire Resistance Level

Fire integrity (E), the curtain's ability to stop the spread of fire, was tested up to 600 °C for 241 minutes.

Product Compliance

Smoke curtains are tested to BS EN 12101-1 and manufactured in conjunction with EN 13241-1 and EN 13501-2 and are classified as CE identification.





DRAFT CURTAINS

Fire Resistance Level

Fire integrity (E), the curtain's ability to stop the spread of fire, was tested up to 600 °C for 241 minutes.

Product Compliance

Smoke curtains are tested to BS EN 12101-1 and manufactured in conjunction with EN 13241-1 and EN 13501-2 and are classified as CE identification.

Draft curtains are a type of static curtain that is most often placed in warehouses or manufacturing environments, open facilities with high ceilings. This type of curtain doesn't form a total barricade against smoke but instead breaks up the airflow along the ceiling. They should be strategically placed near exhaust vents to slow down the travel of the smoke and push it outward through the vents.

Features and Benefits

- Economical Solution (Simple, cost effective and low maintenance)
- Lightweight
- Design Solution
- Allow Architectural freedom with space usage



AUTOMATIC FIRE CURTAINS

Fire Resistance Level

Fire integrity (E), the curtain's ability to stop the spread of fire, was tested up to 1000 °C for 120 minutes.

Product Compliance

BS EN 1634-1:2014 (Fire Resistance)
BS EN 15269-11:2018 (Oversize Certification)
System compliance with 13501-1:2007 + A1 2009 are classified as CE identification.

Product Range

Width: Unlimited, Drop: 12Mtr

Fire Curtain is an advanced fire curtain system designed to provide robust fire protection in various commercial and residential settings. Engineered with cutting edge technology and high-quality materials, this model ensures rapid deployment and effective containment of fire and smoke, minimizing damage and maximizing safety.

Features and Benefits

- Economical Solution (Simple, cost effective and low maintenance)
- Lightweight
- Design Solution
- Allow Architectural freedom with space usage
- 100% Gravity Fail Safe Descent
- Electrically operated fire/heat resistant barrier
- Invisible in normal conditions

Applications

- Office Buildings, Data Centres
- Schools, Hospitals, Hotels
- Retail Spaces, Parking garages, Ware Houses



WPC & PVC DOORS

PVC+XPS Doors vs. WPC Doors

1. Material Composition

PVC+XPS Doors

Outer Layer: Polyvinyl Chloride (PVC) – Smooth, waterproof surface.

Core: Extruded Polystyrene (XPS) – Lightweight with high thermal insulation.

Structure: Multi-layer composite design (PVC surface + XPS core).

WPC Doors (Wood-Plastic Composite Doors)

Material: Wood-plastic composite (PVC resin, additives) – Homogeneous structure.

Manufacturing: Extruded or molded; surfaces mimic wood grain or smooth finishes.

2. Key Advantages & Disadvantages

Physical Properties

Criteria	PVC+XPS Doors	WPC Doors
Weight	Lighter (ideal for large doors)	Heavier (requires reinforced hardware)
Strength	Moderate impact resistance; prone to deformation	High compressive/flexural strength; durable
Water Resistance	Excellent (PVC waterproof)	Excellent (plastic resists water)
Thermal/Acoustic Insulation	Superior	Good
Insect performance	Excellent	Excellent

Environmental Impact

PVC+XPS Doors

Pros: Recyclable, high cost of post-processing

Cons: PVC production may release vinyl chloride;

WPC Doors

Pros: Eco-friendly (recycled materials; low carbon footprint, formaldehyde-free).

Cons: The overall cost is higher than PVC doors.

Cost

Criteria	PVC+XPS Doors	WPC Doors
Cost	cheaper (budget-friendly)	Higher cost (Longer lifespan (up to 15-20 years).

Applications

PVC+XPS Doors: High-humidity areas (bathrooms, kitchens), temporary structures, budget projects.

WPC Doors: Indoor/balcony doors, eco-friendly homes, high-traffic areas.

3. Selection Guidelines

Choose **PVC+XPS Doors** for: Affordability, lightweight design, waterproofing, or thermal insulation.

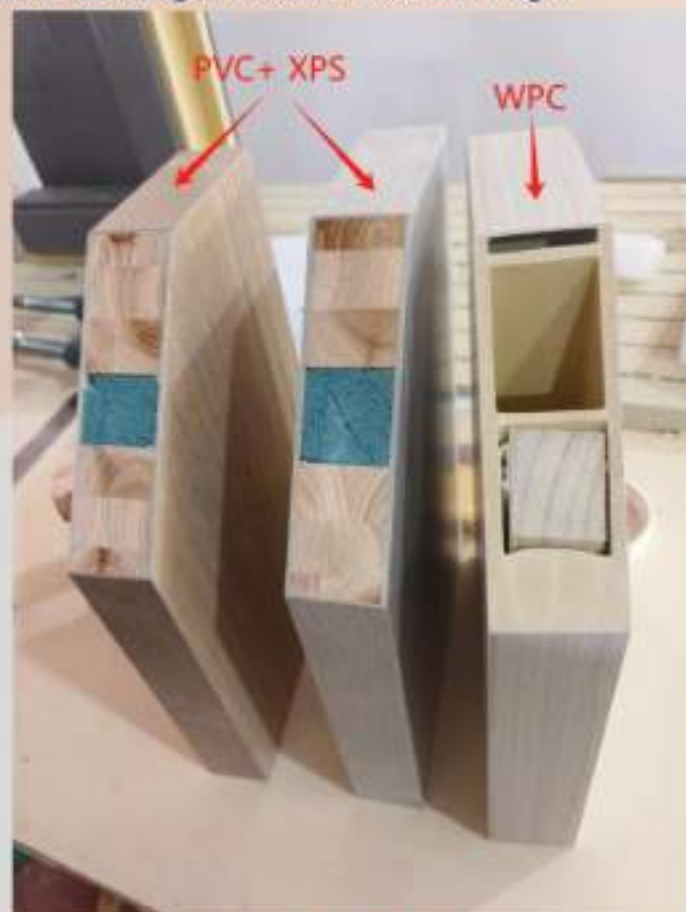
Choose **WPC Doors** for: Durability, natural aesthetics, eco-friendliness, or heavy-duty use.

4. Key Considerations

3. Climate Suitability:

- Humid regions: Prioritize PVC+XPS.
- Dry climates: Opt for WPC.

Note: There is not much difference in performance between WPC doors and PVC+XPS doors. You can choose according to customer needs and budget.



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WPC Frame

PVC Film

2MM WPC Board



XPS Foam Door Core



WPC hollow door



XPS board



WPC WALL PANEL



WPC WALL PANEL



WPC WALL PANEL



WPC WALL PANEL CLADDING



VULCAN - HARDWARES

Vulcan Hardware has an extensive range of architectural door hardware and ancillary fittings engineered to the highest standards, conforming to International Standards.

Our range is designed to be solution oriented, providing optimum solutions to access / egress controls of commercial buildings, retail complexes, hospitals, universities, government buildings and manufacturing facilities etc.

Vulcan liaises with architects and consultant for their design concepts to add a lasting aesthetic value to its product range.

HINGES



DOOR CLOSERS



LOCKS CYLINDERS



EXIT DEVICES



HANDLES



ACCESSORIES



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