



SPECIALISED DOORS

INDUSTRIAL DOOR RANGE PRODUCT CATALOGUE





SPECIALISED DOORS - FIRE | TRANSFORMER | SECURITY | X-RAY

OUR STORY

Alpha Door Solutions is a one-stop specialised door supplier offering turnkey solutions with expertise in specifying, design, manufacture, supply and installation. We boast a full in-house quality service centre and over 20 years of experience in the door industry. Our focus is to provide our Clients with innovative and cutting-edge products, and services delivered within short turn-around times.

OUR VISION

To be the leader in supply of specialised doors, renowned for customer service, quick response, innovation, and unmatched quality.

OUR MISSION

To protect lives and property, through provision of fit-for-purpose doors. We understand that there is more to doors than just opening and closing. We strive for service excellence, and to be the company that best understands and satisfies the product, services and project-fulfilment needs. We are sustainable: our carbon footprint is minimal through use of environmentally friendly materials and processes; continuous product development, continuous team development and strict observation of health and safety requirements.



ALPHA FIRE DOOR A, B, C & D



FIRE DOORS

Alpha Door "Classic" Class 'A, C & D' fire rated doors are manufactured with our benchmark environmentally friendly and non-combustible composite core material that is engineered and tested to perform in accordance with the latest SANS1253 and SANS 10177-2 regulations.

FIRE DOOR PROPERTIES



NATIONAL TEST STANDARD REQUIREMENTS

Fire doors form an integral part of a fire safety plan, their principal purpose being to save lives and offer protection to buildings and their contents. In South Africa, fire doors are a legal requirement, all buildings must comply with requirements set out in SANS 10400: Part T - Fire Protection Act.

Fire Doors must meet criteria set in SANS 1253 (Fire-doors and Fire-shutters). Fire door classes are an indicator of how the door type satisfies the following criteria:

NATIONAL TEST - STANDARD FIRE RATING

	Class A	Class B	Class D	Class E
Stability	1 hour	2 hours	2 hours	1/2 hours
Integrity	1/2 hour	1 hour	2 hours	1/2 hours
Insulation	1/2 hour	1 hour	2 hours	1/2 hours
Impact Test	n/a	n/a	Yes	n/a

• **STABILITY** is the door's ability to fulfill its design function of keeping an opening closed in the face of fire so that no fissure or opening wider than 25mm develops.

• **INTEGRITY** enables the door to resist fire without the development of perpendicular through openings wider than 6mm and longer in total than the largest dimension of the door.

• **INSULATION** refers to the door's ability to prevent the transmission of enough heat to raise the mean unexposed face temperature by more than 140 °C above the initial temperature.

• **IMPACT TEST** enables the door to resist two successive impacts of a sandbag 250mm in diameter, and a mass of 27kg without the formation of any opening wider than 25mm. This test, which is fully described in The South African National Standard - Section 5.5 and 5.6.

FIRE DOOR TYPES & SOLUTIONS

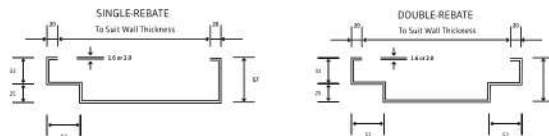
We offer the following fire door types.

- Single leaf - hinged, single action
- Double leaf - hinged, single action
- Single leaf - horizontal sliding
- Double leaf - horizontal sliding

DOOR FINISHES

We offer our fire doors in a variety of paintable and exotic finishes, to suit the Customer's requirements. Examples of finishes include Masonite, Sapele veneer, Commercial veneer, White Oak veneer and Walnut Formica.

For class D Fire doors, finishing comes in either veneer on external side and concealed steel cladding or steel clad on external side. The choice is dictated by agreed customer what the Customer requires. Double doors are fitted with slam bars / meeting stiles.





SLIDING FIRE DOORS



SLIDING FIRE DOORS

Our sliding fire doors are designed and manufactured in accordance with the requirements of the South African National Standard 1253 (Fire-Doors and Fire-Shutters). Our range of sliding doors include single panel and bi-parting doors.

SLIDING FIRE DOOR PROPERTIES



Water resistance



Frost resistance



Multi-resistance



Impact resistance



Heat shock



Sound insulation



Adhesive



Zero carbon footprint

NATIONAL TEST STANDARD REQUIREMENTS

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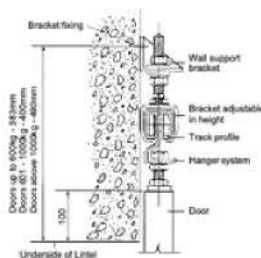
TRACK

The door runs on two ball bearing trolleys running in an overhead track bolted to the masonry above the lintel. The door which runs clear of the floor, is guided by guide rollers fixed into the floor.

AUTOMATIC OPERATION

Our sliding doors are fitted with a fully automatic closing system, comprising a heat sensitive fusible link and a sliding mechanism consisting of ball bearing pulleys, steel cable, weights and weight casing. The casing can be fitted at either end of the track. The closing system is static under normal circumstances, such that the door to be opened and closed manually with ease. In case of a fire, the link fuses, and the door will slide it to the fully closed position.

TRACK ARRANGEMENT



LABELLING

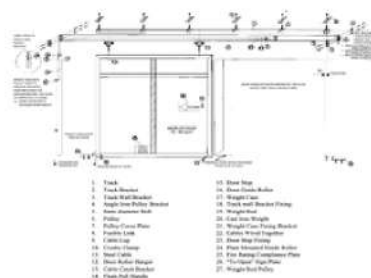
All doors are, in accordance with requirements of the National Test Standard, labelled, indicating The Manufacturer's Name, Unique Identification Number, Classification and Year of Manufacture.

INSTALLATION

Is normally carried out by Alpha Door Solutions.

We supply the sliding fire door components as knock-down kits ready for installation. Installation must be done by competent personnel. Alpha Doors has a team of highly skilled technicians for installations such as these.

SLIDING FIRE DOOR





TRANSFORMER ROOM DOORS



TRANSFORMER ROOM DOORS

Manufactured from 1.6 mm mild steel, our Transformer Room Doors combine excellent capability to provide for security and durability. Your value for money, guaranteed.

FRAME

The frames are made from 1.6mm steel plate or pre-galvanised steel sheeting for coastal conditions.

HINGES

Our transformer room door assemblies are supplied with heavy-duty stainless-steel butt hinges as standard.

LOUVRE VENTS

When requested, louvre vents lined with a vermin proof mesh screen size can be fitted to the doors.

FINISH

All standard doors are finished with a red oxide primer. Galvanised sets are finished with a galvanised primer accordingly.

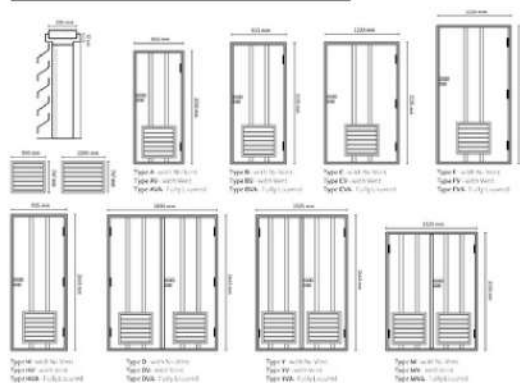
IRONMONGERY

We fit our standard approved pull handles, pad latches and barrel bolts (to double doors). Other ironmongery can be fitted when requested by the Customer.

INSTALLATION

We supply the assembly as a unit. The door and frame unit must be installed square true and plumb with the door(s) in the closed position. It is advised that the installation be carried out by a competent person.

STANDARD TRANSFORMER ROOM DOOR SIZES





LEAD-LINED GLASS HINGED & SLIDING DOORS



LEAD-LINED GLASS HINGED & SLIDING DOORS

Our lead-lined hinged and sliding doors are custom-designed and built. Lead-lined doors are typically used in environments where X-ray equipment is in use such as medical x-ray, CT Scan rooms in hospitals and doctor's offices. The doors have a laminated constructed core, comprising of a centrally located lead sheet lining. The thickness of the lead lining is determined by the amount of radiation exposure from the equipment being used.

DOOR FINISHES

A variety of options are available to suit specific Customer requirements such as Masonite, timber veneer (exotic veneers subject to availability) and steel sheeting.

FRAMES (Hinged Doors)

The frames are manufactured from 1.6mm mild steel or galvanised sheeting if required in a double rebated profile to suit the wall thickness on site. The internal rebate of the frame is also lined with lead of a thickness compatible with the lining in the door.

SLIDING DOOR TRACK MECHANISM

Sliding Doors are supplied with overhead sliding track, trolleys, floor guide rollers and door stops.

IRONMONGERY

When fitted with ironmongery, great care must be ensured so as not to damage the lead lining of the door.

HINGES

We supply the doors fitted with heavy duty 4.0mm flanged brass butt hinges with 11/2 pair per leaf on standard size doors and 2 pairs on nonstandard door.

SLIDING DOORS

Lead-Lined Sliding Doors are manufactured to overlap the actual opening by 100mm on the top and on each side.

INSTALLATION (Hinged Doors)

We supply the hinged door assemblies as a unit. The door and frame unit must be installed square true and plumb with the door(s) in the closed position. It is advised that the installation be carried out by a competent person.

In the case of lead-lined sliding doors, we supply as knock-down kits ready for installation. Installation must be done by competent personnel. Alpha Doors has a team of highly skilled technicians for installations such as these.



SECURITY DOORS



SECURITY DOORS

Our Security Doors are designed to fulfil specific security functions as per the requirements of SABS 1658 and BS 5051. The doors comprise of a reinforced bullet resistant core to suit the security application with either a veneer or steel finish, stainless steel channel surround and a stile to the leading edge to limit access to the locking mechanism. Security Doors finished in a specified finish with a security lock, a stainless-steel lock protection stile to the leading edge of the door and fitted to 3mm pressed mild steel or galvanized frames with a continuous geared hinge.

Security Doors are not manufactured in double leaf format.

Standard Door Sizes:

813/900/1000 x 2032 mm

DOOR TYPES

ANTI-BANDIT DOOR

The Anti-Bandit door is designed to protect personnel and equipment vulnerable to small armed attacks and fulfill the requirements of the SABS Test Standard 1658-1996 for the weapons and ammunition detailed overleaf. Applications include offices, banking halls, internal doors of private residences and embassies. The Anti-Bandit door also has a 105 minute fire rating.

ANTI-BANDIT DOOR

Ammunition	Weight Of Projectile	Weapon	Velocity
22 High Velocity Solid Lead	2.6g	22 Long Rifle	330
38 Lead	10.2g	38 Revolver	260
9mm Full Metal Jacket	8.0g	9mm F. Barrel Revolver (see weapons)	360
9mm Full Metal Jacket	8.0g	9mm F. Barrel Revolver (see weapons)	440
44 Lead Point	15.6g	44 Magnum Revolver	425
357 Sem Metal Jacket	10.2g	357 Magnum Revolver	425
357 Armour-Piercing	9.0g	357 Magnum Revolver	420

HIPPO DOOR

Ammunition	Weight Of Projectile	Weapon	Velocity
5.56 Armour-Piercing	3.56g	88 Rifle	960

POLAR & HIPPO DOORS

The Polar and Hippo doors are designed for external and internal use to protect personnel and equipment in high security areas. These doors fulfill the requirements of the SABS Test Standard 1658-1996 for the weapons and ammunition detailed overleaf. Typical applications include: Access doors to control buildings, power stations, sub-stations, embassies, diplomatic residences and financial institutions.

POLAR DOOR

Ammunition	Weight Of Projectile	Weapon	Velocity
44 47 Ball	17.6g	44 47 Rifle	148
7.62 x 39mm Full Metal Jacket	9.7g	7.62 x 39 Rifle	930
5.56 x 22mm Full Metal Jacket	3.56g	88 Rifle	960



ESCAPE DOORS

ESCAPE DOORS

Escape doors are usually on the perimeter of the building, and are the last doors you pass through on the escape route to a place of safety.

The National Building Regulations specifies an Escape door as that door in an escape route which, at ground level, leads directly to a street or public place or to any approved open space which leads to a street or public place. Emergency Escape doors **MUST** always open in the direction of the escape.

Escape Doors should normally be hinged doors, the National Standard prohibits the use of sliding doors from forming part of an escape route.

TYPES OF ESCAPE DOORS

PANIC ESCAPE DOORS

Panic escape doors - have a bar across all or most of the width of the door. Always open in outwards.

IRONMONGERY

Ironmongery fitted to an Escape door must allow the door to be easily opened in the direction of escape without specialised knowledge or the use of keys or tools.

Escape doors must not be so locked or secured that they cannot be effortlessly and instantly opened by any person who may need to use them in an emergency.

OTHER ESSENTIALS:

- Signage.
- Green running man above or beside the door (NOT on the door).
- Signage explaining use of the escape device e.g. "Push bar to open" with directional arrow.
- Blue/white sign on the outside of the door "Fire Exit - Keep Clear".

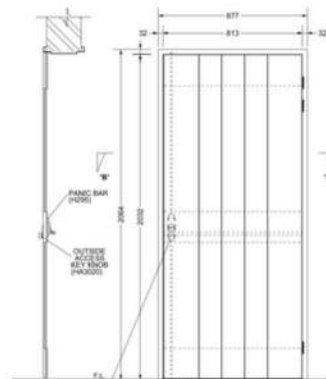
EMERGENCY ESCAPE DOORS

Emergency escape doors - have a push pad or lever handle. In some rare cases emergency escape doors open inwards.

ESSENTIAL HARDWARE FOR ESCAPE DOORS

Certain items of ironmongery (door hardware) are essential to a fire door's performance. They vary from door type to door type, but can include:

- Hinges (or pivots) to hang the door.
- Panic bar for panic escape
- Push pad / Escape lock with lever handles for emergency escape.
- Non hold-open door closers





CONNECT WITH US

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