

DNK

Fire & Security Solutions

METAL DOORS & SHUTTERS



Metal Door

INTRODUCTION

DNK Engineering is a privately owned company, located in Dubai, United Arab Emirates.

The DNK metal product range is both wide and varied. We offer our clients a choice of standard or custom made solutions to meet the performance and stability of modern building requirements. All our products are manufactured in accordance to International Standards. DNK operations are quality accredited to ISO 2008 :9001, proving that the quality standards are monitored to meet the customer's expectation.

Each project we handle begins with a brief consultation with the clients and the contractors to provide technical support and product recommendations once we understand the design, functionality and performance.

Our commitment is to provide technical solutions, supply of high quality products manufactured and delivered on time according to international standards. Our team of professional designers conceive the product as a solution to our customers in order to reach their expectations in terms of technical specifications and scheduling. Creative solutions and aesthetics are considered to provide solutions to problematic design schemes.

RANGE OF PRODUCTS

DOORS:

- * Fire Rated Steel doors
- * Acoustic doors
- * Louvered doors
- * Insulated doors
- * Fire Glazed doors & Windows
- * Fire Partitions / Screens
- * Sliding doors

SECURITY / DETENTION:

- * Main Entrance doors
- * Prison Entrance doors
- * Blast doors
- * Grill / Cell doors
- * Vault room doors
- * Burglar Resistant doors

SHUTTERS:

- * Rolling shutter
- * Overhead / Sliding Sectional doors
- * Garage doors
- * Lift doors
- * Hanger doors



Metal Door

FIRE DOOR

We provide a wide range of Fire Proof doors available with a variety of configuration and vision panel options. The doors are certified by BM Trada under both Underwriter's Laboratory ULI10C and BS 476 Part 22 standards for up to 2 Hrs Fire rating. The doors are manufactured to suit Staircase, Corridor, Service rooms, entrance etc.



INSULATED DOOR

Full range of insulated doors 60, 30 min up to 2 hours fire rated. Designed to suit the Power Substations, Cold stores, Heat transfers applications and other similar locations.



ACOUSTIC DOOR

A complete range of single and double door sets to suit the performance up to RW53 and 120 min fire integrity to suit cinemas, Studios, Mechanical rooms, Generator Rooms and other sound polluted rooms.

LEAD LINED DOOR

The criteria to prevent penetration of X-Ray radiation through the door up to certain limits depend on the intensity and density of generated radiation from machines or equipments available in the room or laboratory. We supply Lead Lined Doors according to specific customer's requirements of the generated radiation intensity and density and the specified test standards. These doors mainly used to provide radiation protection in hospitals and health clinics.



TECHNICAL DETAILS

FIRE RATED DOOR

Steel Doorset Characteristics

- Strong durable and impact resistant
- Unaffected by moisture; will not warp, swell or rot
- Excellent surface finish, smooth and durable
- Prepared & reinforced to receive a wide range of hardware
- Inherent hygienic properties
- Reduced maintenance and lower cost of ownership
- Enhanced security and acoustic characteristics
- Environmentally friendly - 100% recyclable
- Long life performance and improved life cycle costs

Classifications

BS 476 Part 22: 1987 (Fire integrity)
 BS 476 Part 22: 1987 Clause 6 (Full fire insulation)
 BS EN 1634-1: 2000 (New European standard)
 BS 5588-4: 1988 (Smoke passage)
 Underwriters Laboratories Inc.
 BS EN ISO 9001: 2000 (Quality Management System)
 Tested to 1 million cycles in accordance with EN 1191

Options

Single and double doorsets
 Single and double swing
 Side and overpanels
 Banks of doorsets
 Vision panels
 Fully glazed option
 Fire block louvres
 Full range of premium hardware sets and accessories

Finishes

Comprehensive range of RAL polyester powder top coat finishes or primer coated.
 Brushed, polished or patterned stainless steel to order.

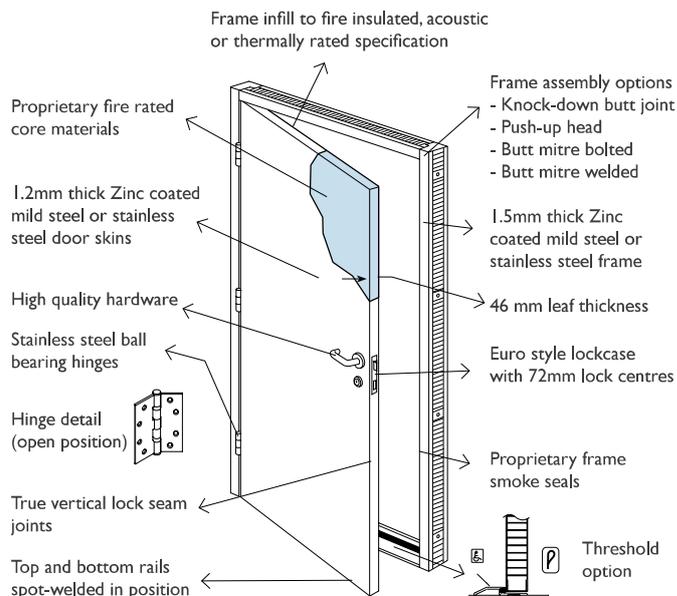
Specification information

CAD drawings - DXF or DWG versions
 NBS Specification (Document L20-Doors/ Shutters/Hatches)

Note: When specifying, consideration should be given to sound transmission through surrounding building elements.

Rw dB: Weighted sound reduction index under laboratory conditions.

Fire Door Features



FD - Fire Door Range

Door Ref:	Fire Integrity Rating			Sound Reduction (Optional)
	BS	EN	UL	
FD1001	1 hr	1 hr	0.75 hr	30Rw dB
FD1002	2 hr	2 hr	1.5 hr	30Rw dB
FD1003	3 hr		3 hr	
FD1004	4 hr			

FD - Fire Insulated Door Range

Door Ref:	Fire Integrity BS	Fire Insulation BS	Sound Reduction (Optional)
FD1001	1 hr	0.5 hr	30Rw dB
FD1002	2 hr	0.5 hr	35Rw dB
FD1003	2 hr	0.5 hr	40Rw dB
FD1004	2 hr	0.5 hr	45Rw dB

TECHNICAL DETAILS

DOOR FRAMES

Material

Galvanised Steel, Stainless Steel

Thickness

Gauge	14	16	18
Millimeters	2.0	1.5	1.2

Technical Data For Standard Frames (D X H)

Double Rebate Frame	143 x 57 mm*		
Single Rebate Fram	100 x 57 mm	100 x 70 mm	
Frame Assembly	Mitered	Butted	Welded

Standard Heights (Wall Openings)

Inches	6' 10 ^{3/4} "	7' 2 ^{5/8} "	7' 10 ^{1/2} "	8' 10 ^{1/4} "	9' 10 ^{1/8} "
Millimeters	2100	2200	2400	2700	3000

Frames

Available in mitered joint and butted assembly, our frames are supplied in knock down form for easy assembly at site. Welded frames are supplied on special request.

Features

- Available in galvanised and stainless steel
- Frames available in single and double rebate
- All frames are prepared for receiving hardware
- Frames can also be designed for flush fixing
- Primed and finish painted.

Optional

- Frames with Architave
- Frames with inbuilt seals.

PREPARATION

Hinge Jamb

4 mm thick steel hinge reinforcement door and frame for receiving the hinge.

Strike Jamb

3 mm thick steel lock strike reinforcement with tapped holes welded to the frames.

Mortar Guard

1.2 mm thick steel plaster guard or mortar guard is provided at the back of all hardware cutouts in the frame.



TECHNICAL DETAILS

FRAME ASSEMBLY DETAILS



Mitered Joint (Double rebate)



Bolted Joint (Double rebate)



Welded Joint (Double rebate)

(Mitered and bolted joint frames are supplied in knock down form)

ANCHORING AND FIXING DETAILS (OPTIONS)

Frames can be designed for fixing on typically plastered opening, masonry opening or dry wall partitions. We offers a wide range of unrivalled options in aesthetics and finishing.

Tee-Anchoring:

First fix provides maximum engagement into the constructed wall, with slip-on anchors made out of galvanised steel.

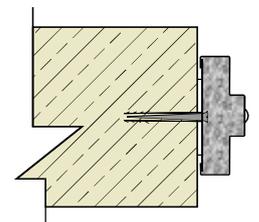
Expansion Anchors:

Used in masonry openings or finished plastered openings. The frames are bolted to the clear opening with 8 mm expansion anchors. Screws are rested on the backplate.

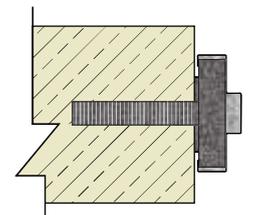
Bolted Anchors:

Frames fixed on 'C' Channel are bolted directly on to the back plate.

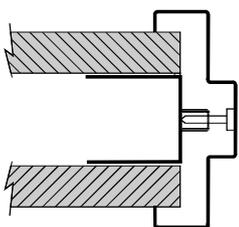
Double rebate - Back Plate



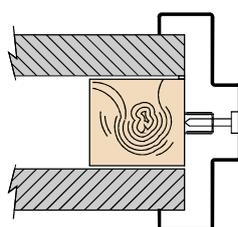
Double rebate - T - Anchor



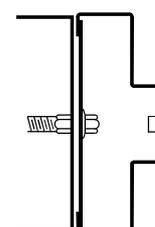
DRY WALL FIXING



Frames installed with steel stud



Frames installed with wood stud



Frames installed on 'C' channel

HARDWARE OPTIONS

IRONMONGERY SET OPTIONS

To simplify the specification of ironmongery for your Steel Doorsets, we have pre-selected a number of standard ironmongery set functions suitable for most door opening requirements.

These sets have been produced using over 10 years experience of supplying steel performance doors to construction industries across the world.

Each set has been drawn up from our ironmongery and has been carefully chosen to provide functionality, robust performance and stylish design. Our brand is synonymous with high quality design, reliability and durability and is at the forefront of supplying products that meet new European standards.



Panic Device

Panic bolt and panic latch are supplied in a silver finish. When used as a pair on double doors a box keep is also supplied as part of the set. Panic hardware is CE marked to EN 1125.

Outside Access Device

Outside access device (OAD) supplied in a silver finish. The lever operated unit is supplied complete with Euro profile cylinder.

Pull Handle

Stainless steel pull handle with concealed face fixing roses. The 20mm diameter pull has 300mm centres making it compatible with the dimensional requirements of BS 8300. Produced in Grade 304 stainless steel with a brushed finish.



HARDWARE OPTIONS

Push Plates

For use in conjunction with the pull handle is a stainless steel push plate 300x 75mm supplied with countersunk head self tapping screw fixings. Produced in Grade 304 stainless steel with a brushed finish.

Hinges

Stainless steel ball bearing butt hinges in Grade 304 stainless steel with a brushed finish. Hinges are to EN 1935 Grade 13 and tested to 1 million cycles. Designed specifically for use with steel doors the hinge is template drilled for accuracy of fitting with machine screws.

Escutcheons

Matching lock function escutcheons or bathroom set with concealed fixings for use with Briton lever or pull handle furniture. Brushed finish Grade 304 stainless steel.

Overhead Doorcloser

Overhead door closer in silver finish. The closer has adjustable power and backcheck facility. Door closer can be fitted on the push or pull side of the door. Closers are CE marked to EN 1154.

Lever Handle

Contract series rose mounted 19mm diameter lever furniture with concealed bolt through fixings for stability and durability. Levers comply with the performance requirements of EN 1906.

Mortice Lockcases

Lockcases have Euro style 72mm centres (78mm bathroom) and a 55mm backset. The forend is satin stainless steel with matching strike plate. Locks are CE marked to EN 12209 and comply with the dimensional requirements of BS 8300. Supplied complete with temporary cylinder & turn where appropriate.

Signage

Fire exit - Rigid plastic white/green (200 x 600mm)
Fire exit keep clear - Rigid plastic white/blue (200 x 200mm)
Push bar to open - Self adhesive white/green (90 x 500mm)
Fire door keep locked (80 x 80mm)
Fire door keep shut (80 x 80mm)
All signs comply with BS5499.

Flush Bolt

Lever action concealed flush bolt, factory fitted into the leading edge of the inactive leaf of a pair of doors. Supplied as a pair for the top and bottom of the door. SCP finish.

Door Selector

To co-ordinate the closing order of a pair of doors. Silver finish.

Door Stop

Floor mounted door stop.



Panic Device



Outside Access Device



Pull Handle



Push Plate



Hinges



Overhead Doorcloser



Lever Handle



Mortice Lockcases



Escutcheons



Flush Bolt



Door Selector



Door Stop

1

Hangar Doors

A



FABRIC TYPE

MEGA FOLD-UP HANGAR DOOR

For high durability, energy saving and reliability, with minimum maintenance. Each door is individually designed to be customized and to withstand winds and bad weather, which can be different based on the area where the product is installed.

These doors consist of an inner panel, an outer panel and some bars for more stability. This door is ideal for industrial environments designed for material handling.

Maximum Dimension

30000mm x 20000 mm H

Wind load: Class 4 (140km/hr)

B



SLIDING FOLDING HANGAR DOOR

The exclusive assembly system of the sliding door creates a unique folding effect, whereby the combination of different door concepts can be incorporated in the same façade.

The sliding door offers an array of unique features, providing maximum security for large openings, where minimum headroom of only 160mm is required.

Additional features include:

- Opening to one or two sides
- With or without bottom rail
- Manual operation with optional electrical drive
- Maximum width 100m & Height 13m,
- Certified wind load resistance Class 4: (EN 12424)

C



SLIDING TELESCOPIC TYPE HANGAR DOOR

The each door section is bottom rolling and top guided. Configurations include: uni-directional, bi-parting, individually operated, 3-way traveling group and anchored group systems.

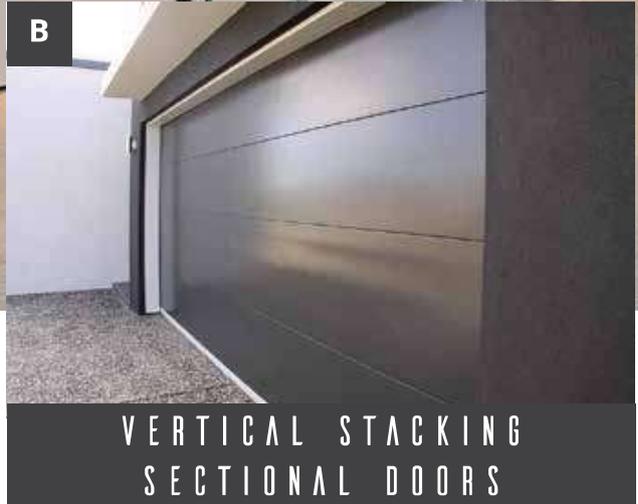
These options allow you to choose the best for your requirement. These types of door provide an excellent application for corporate, FBO, charter and airline hangars.

The door system is built to endure massive wind loads and withstand strong weather conditions. The vertical weather seal bulbs offer most reliable all-weather protection.

Sliding Type Hanger Doors Available in Steel & Aluminium Structures. Steel Type can go upto maximum height of 25 meters and clad with Insulated Sandwich panel &/or Glazing. Extruded Aluminium type door has max height of 13.6 meters, and filled with insulated sandwich panel &/or Glazing.

2

Commercial Sectional Doors



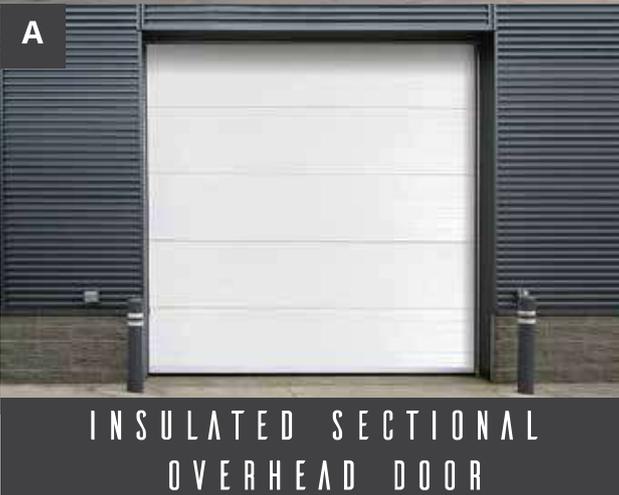
VERTICAL STACKING SECTIONAL DOORS

The vertical folding door is the ideal door type for building areas where the full height of the room - for example in the case of lifting platforms - is required or to optimize structural conditions. The low insertion depth is particularly advantageous in halls with light couplings, glass roofs and facades. The light and the view remain free under all circumstances.

The Aluminum sectional door leaf is divided into 4 or 6 horizontal sections, which are connected to one another by special hinges.
Maximum Size – 4000mm W & 5000mm Height
Wind load: Class 4 (140km/hr)



INSULATED BI-FOLDING DOORS



INSULATED SECTIONAL OVERHEAD DOOR

Strong in Construction for reliable performance, the insulated sectional Aluminum / steel-back door, is perfect for commercial and industrial applications. Three-layer sandwich construction with inner and outer Aluminum / galvanized steel provides durability and reliability.

Panel thickness:

Steel: Available in 40mm, 42mm and 45mm,

Aluminium: 42mm and 51mm

Maximum Size – 7000mm W & 7000mm Height

Track System: 2" and 3" track available in Standard Lift, High lift and Full vertical, low headroom, and follow roof line options

Available Options: Wind load options; Electric operator; Chain hoist, Photocell, Remote, Bottom-sensing edge, Window Glazing Options

C Maximum Dimension
10000mm x 6000 mm H
Wind load: Upto Class 4 (140km/hr)

Industrial Rolling shutter Doors

Roller Shutters are one of the most versatile door product available for access control to almost all sizes of opening and perfect for covering and securing doorways, windows and other apertures.

The roller shutter door is always made to order and requires very little space above, outside, or inside any opening.

There are well over 50 different curtain slat types that can be used to construct a roller shutter curtain and all of them have different levels of strength, security, insulation and surface finishes available. Steel or aluminium are the 2 main materials for the roller door curtain construction in Single Skin and Double Skin slats options.

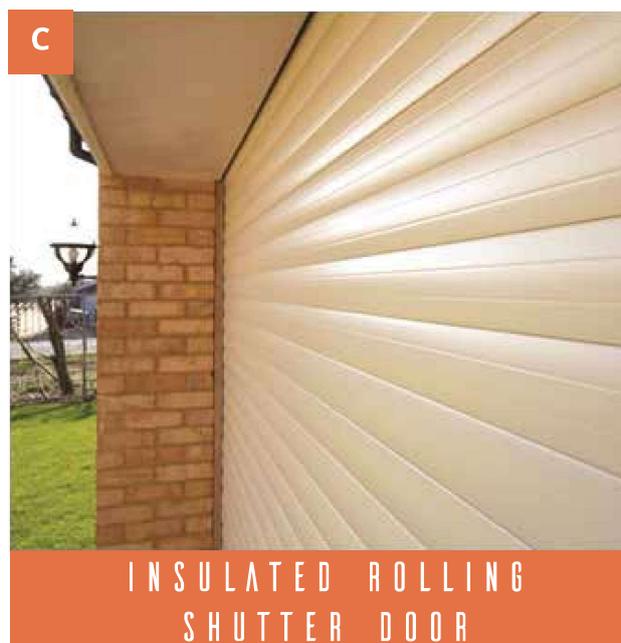


SOLID SLAT INDUSTRIAL ROLLING SHUTTER DOOR

(ELECTRICAL OPERATED — STEEL / STAINLESS STEEL)

HMI Doors supply a wide range of Solid slat roller Shutter doors for the industrial sector where the environment is often harsh with high usage and very large sizes. Industrial warehouses and factories can often also be exposed so the wind becomes a key factor in the specification for the roller doors used.

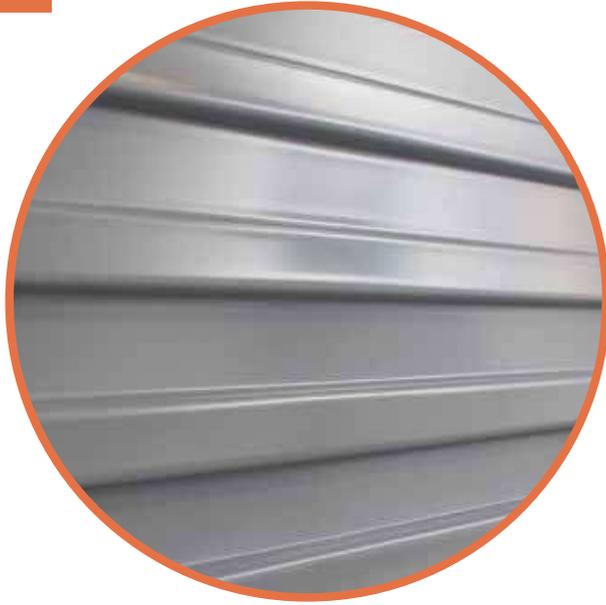
The shutter doors come in two pitches 75mm and 100mm. With slat thickness of 0.7mm, 1.0mm 1.2mm and 1.5mm



INSULATED ROLLING SHUTTER DOOR

The double skinned curtain Roller Shutter Doors will offer greater Thermal protection keeping the inside temperature as constant as possible and use as a multi-purpose door system in any building requiring good levels of insulation as well as security. The curtain laths available in Aluminum and Steel with a foam filled core and a smooth or microprofile design to the front to provide an attractive and practical surface finish enhancing your building. The majority of insulated roller doors are electrically operated. The standard painted finish (off White) has a superb visual appearance but the slats can also be painted if required to suit your colour requirements and corporate branding. The shutter laths are available in 77mm Pitch and 90mm Pitch to suit to different opening dimensions.

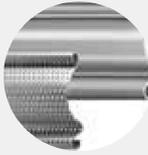
LIGHT INDUSTRIAL CONTINUOUS PROFILE DOORS



The continuous profile Light Industrial Roller Doors are designed for easy installation, maintenance free operation and a long life. These doors are fast, silent and safe offering customers' value for money. The curtain made of Steel with Zinc alum coating and multiple layers of coating.

The Light Industrial Roller Doors are mostly used in store fronts, shops, warehouses, factories and wherever complete closures are needed at a low cost. The doors can be operated manually, by a hand chain or they could be motor operated.

Max Dimension : 5000mm width & 5000mm Height
Operation : Manual / Electrical

SLAT TYPE	SINGLE SKIN 75 MM ALUMINIUM	SINGLE SKIN 75MM GI	SINGLE SKIN 100MM GI	DOUBLE SKIN ROLL FORMED 77MM	DOUBLE SKIN ROLL FORMED 90MM	DOUBLE SKIN EXTRUDED
						
SLAT TYPE	ALUMINIUM	GI STEEL / SS	GI STEEL / SS	STEEL / ALUMINIUM	STEEL / ALUMINIUM	EXTRUDED ALUMINIUM
SLAT PITCH (MM)	80/100	75	100	77	90/95	55/77
TYPE	SINGLE SKIN ROLL FORMED / EXTRUDED	SINGLE SKIN ROLL FORMED SOLID / PERFORATED	SINGLE SKIN ROLL FORMED / PERFORATED	DOUBLE SKIN ROLL FORMED INSULATED	DOUBLE SKIN ROLL FORMED INSULATED	DOUBLE SKIN / DOUBLE SKIN INSULATED
SKIN THICKNESS (MM)	0.8 / 1.0 / 1.2	0.7 / 1.0 / 1.2	1.0 / 1.2 / 1.5	0.45-STEEL 0.53 ALUM	0.45-STEEL 0.53 ALUM	1.0 / 1.2 / 1.5
OVER ALL THICKNESS				13 - STEEL 19 - ALUM	23-STEEL; 27.5-ALUM	13
MAX DOOR WIDTH (MM)	7000	10000	12000	6000 STEEL 4500 - ALUM	8000 STEEL 6000 ALUM	8000
MAX DOOR HEIGHT (MM)	6000	8000	12000	4000	6000 STEEL 6000 ALUM	8000
STANDARD FINISH	POWDER COATED TO ANY STD RAL	POWDER COATED TO ANY STD RAL	POWDER COATED TO ANY STD RAL	BAKED ENAMEL - OFF WHITE	BAKED ENAMEL - OFF WHITE	POWDER COATED TO ANY STD RAL
OPERATION	MANUAL / ELECTRICAL	MANUAL / ELECTRICAL	ELECTRICAL	ELECTRICAL	ELECTRICAL	ELECTRICAL

Shop Front Doors



HMI's Upward Coiling Grille offers a choice of curtain materials to meet the aesthetic and functional requirements of almost any environment. This security grille is fabricated of galvanized steel, Stainless steel and Aluminium inserts options. The standard curtain pattern for this security grille is a straight lattice configuration, but you can opt for a staggered brick design. These security grilles are built for long-lasting, trouble-free performance. These security grilles are available with an electric operator to provide automatic passage for a variety of commercial and industrial uses, including schools, hospitals, libraries, public access buildings and parking garages.



POLYCARBONATE ROLLING SHUTTER DOOR

(TUBE TYPE / RIBBED HINGE TYPE)

HMI polycarbonate roller shutters are of a special design with reinforced Aluminium /SS rods between the panels. The design and materials make our polycarbonate shutters extremely strong and resistant to forced entry. The combination of high visibility with exceptional strength makes our polycarbonate shutters ideal for shops that want to keep valuable goods on display

PERFORATED GALVANIZED SLAT ROLLING SHUTTER

Perforated see-through is another excellent choice for the Shop front off-time exhibition. This is another alternative for the polycarbonate Shutter. However the slats are roll formed with 48% visibility, with the options of powder coating the slats to any desired colour. These doors offer great visibility, aesthetic look and durability.



GRILL TYPE ROLLING SHUTTER DOOR



SLIDING FOLDING SECURITY DOORS & GRILLS

The Security sliding doors allows for more custom installations where curved or L-shaped pockets are desired. If you're designing a retail space, pharmacy counter, food service counter, or a public space like a school or arena, the sliding security doors can be adapted to a variety of design aesthetics.

Seamless polycarbonate, perforated or solid aluminum panels can reach up to 4200mm high without the need for visually distracting horizontal reinforcements. Clear and black anodized options are standard, with more available. Available in 3 different panel width for different application

Residential Garage Doors



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INSULATED SECTIONAL DOORS

Traditional Steel garage doors deliver performance and durability at affordable price. These garage doors are available with classic raised panels, Ribbed or Flush type. Two coats of baked-on polyester paint provide a low-maintenance finish that looks great, year after year.

These steel garage doors combine the long-lasting performance of high quality steel with the elegance of clean lines and classic designs. Whether you want to create a subtle statement or a bolder one, our wide assortment of neutral tones will complement the architectural details of your home.

Panel thickness: 38mm / 40 mm

Skin Thickness: 0.45mm

Dimension:

Standard height 2440mm;

Standard Width – 3000mm , 3650mm, 4250mm, 4875mm, 5480mm, 6000mm

GI SLAT ROLLING SHUTTER DOOR

B

Suitable for wider openings where the sectional doors cannot be hung to the ceiling. The shutter doors come in two pitches 75mm and 100mm, with slat thickness of 0.7mm, 1.0mm and 1.2mm. Here full curtain can be either solid or perforated and combination of solid slat and perforated is also possible.

INSULATED ROLLING SHUTTER DOOR

C

The double skinned curtain Roller Shutter Doors will offer greater Thermal protection keeping the inside temperature as constant as possible and use as a multi-purpose door system in any building requiring good levels of insulation as well as security. The curtain laths available in Aluminum and Steel with a foam filled core and a smooth or microprofile design to the front to provide an attractive and practical surface finish enhancing your Villa.

D



UP & OVER GARAGE DOORS

The One piece traditional UP and OVER garage doors comes in standard or made to order in various materials, like Steel, GRP, UPVC and Timber, in various different designs and finishes. Many designs incorporate windows for light and visual appeal.

All doors can be either manual or remote control electric operated. The simplicity of operation and diversity of panel design is one key factor. Up and over garage doors can be a standard size or made to measure if extra width or height is required to optimize the drive through sizes.

Panel Finish : Wooden finish, Painted

Dimension:

Standard height 2000mm – 3480mm;

Standard Width :3000mm - 6000mm

CONTINUOUS PROFILE GARAGE DOOR

E

These doors are mostly used for garages in villas . They can be operated manually or electronically with a remote control and have an auto reversing safety system. It is a light duty economic solution for the Garage Doors.

Max Dimension 4000mm width & 4000mm Height

Operation: Manual / Electrical

Fire Rated Products

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FIRE RATED HOLLOW METAL DOORS

Hollow Metal Steel Doors are design based on SDI and NFPA technological data in the interest of improving the safety for the public benefits. HMI Hollow Metal fire rated Steel Doors are produced with the toughest UL and SDI standards to prevent any spread of smoke fire breakup.

B



FIRE RATED ROLLING SHUTTER PRODUCTS

HMI offers a wide range of rolling shutter doors to meet the most demanding fire safety standards, unusual opening sizes and discerning aesthetic requirements. Designed to close automatically in the event of a fire or alarmed event. Our fire-rated doors are available for service door and counter applications in commercial, industrial, institutional and retail projects. We provides fire doors with BS or UL labels, and are listed for both masonry and non-masonry applications.

D

FIRE RATED LATERAL SLIDING SHUTTERS

Lateral Sliding Shutters are ideal for isolating large areas such as Malls, Hospitals, centers, Railways stations, architectural voids; small kiosk and shop fronts with low or minimal space allowance for shutter box as well as large and tall openings required to be segregated in case of fire or when needed. The unique feature of the sliding shutter is its flexibility to apply on curved or straight path with no bottom guide. Tested according to BS standard for 1-hour, 2-hour and 4-hour fire-rated.

C



FIRE AND SMOKE CURTAINS

Our Fire Curtains and Smoke Curtains are tested to the British Standards, European Norm, ASTM and UL Standards and are produced in accordance with the quality procedures. We are certified and listed by UL for our Smoke Curtains and Fire Curtains and have also achieved Third Party Accreditation for our Smoke Curtains.

Hollow Metal Doors & Frames

STEEL DOORS

- Steel Doors Non Fire Rated
- Steel Doors Fire Rated
- Sound Proof (Acoustic) Doors and Frames
- Stainless Steel Doors and Frames
- Bullet Proof Doors and Frames
- X-ray Room Doors and Frames
- Transom and Sidelite Frames
- Detention (Cell Doors) Doors and Frames
- Access Doors and Frames
- Window Frames and security screens
- Seamless Doors and Frames
- Dutch Doors and Frames
- Gas Tight Doors and Frames (Air Tight)



DOOR PANEL CORE

Available in Honeycomb core, Polystyrene core, Stiffened Door with fiberglass insulation, Stiffened Door with Rock wool insulation.

DOOR CONSTRUCTION

45mm (13/4") thick full flush construction with the details confirming to SDI-111A-EDGE considered.

Manufactured from cold rolled steel sheets to ASTM A366 or from galvan steel to ASTM A526.

Available in nominal 1.2mm (18ga.) or 1.5mm (16ga.). Vertical edges are interlocked. 1.5mm (16ga.) deep end channels at top and bottom of door for lasting integrity

Hardware reinforcing in accordance to ANSI, SDI, NFPA standards requirements. Tested according to UL10(B) and labeled up to 3 hours.

Available with wide range of glass light and louver preparations.

Fire rated, Labeled: Available in sizes up to 4'x8' single and 8'x8' double. Larger sizes are also available with oversize certification.

FRAME CONSTRUCTION

Frames are constructed of 1.2mm (18 gauge) or 1.5mm (16 gauge) or 2mm (14 gauge) or 2.5mm (12 gauge) commercial quality cold rolled steel ASTM A366 or hot dip galvanized steel sheet ASTM A526, G90 for doors of either 45mm (13/4") or 35mm (13/8") thickness with the details conforming to SDI-111A. All bends shall be formed with true sharp radii.

Transom side light frames may be of 1.5mm. (16ga.) or 2.0mm (14ga.) Steel Sheet.

Maximum Frame size: 3650 X 3048mm. or 3048x 3650mm. for masonry Wall installations and for dry wall installations.

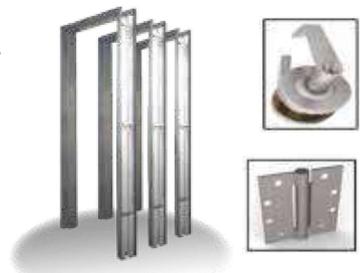
Maximum Door opening Size: 1220x2438mm. for single, 2438x2438mm. for pair.

Jamb Depth: 120mm.Min. thru 323mm.

Max. (4 3/4" thru 12 3/4")

Maximum throat Opening: 114mm.

For masonry wall; 92mm. for dry wall



FIRE RATED STEEL FRAME

This specification applies to standard steel frames as shown on the plan and door schedules and as manufactured. HMI Hollow Metal will provide frames in compliance with ANSI/SDI-100 requirements. We provide fire rated frames labeled and listed by UL (or) Warringtonfire-Mideast

Specialty Doors

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BLAST RESISTANT DOORS

Swing & Sliding Type Blast resistant doors for High bar pressure.

HMI can supply and fit a range of doors that provide protection from the use of firearms. The blast/bulletproof doors have been tested and certified in accordance with reputed Test Laboratory.

Designed and built for protection in the event of fire, blast of ballistic attack and engineered for long term durability, HMI design and manufacture doors to withstand blast, ballistic and forced entry threats combined in one product.

B



OVERSIZED DOORS [ROLLING & SECTIONAL DOORS]

Special Design and built solution for Oversized Opening Dimension and Requirement. We offer solutions both in Rolling shutter and Sectional Doors

C

HMI offers a wide range of hinged doors and sliding doors for cold rooms:

- Single and double leaf hinged doors
- Single-and double-leaf sliding doors, manually or automatically



We offer cold store doors which are free of corroding components.

In the design the strict hygienic rules were paid special attention. The surfaces are made of galvanized sheets painted in different colors or stainless steel circular graining.

COLD ROOM DOORS

High Performance Rapid Doors

A



HIGH SPEED FABRIC ROLL UP DOORS

Material: PVC Fabric (900 / 1200 gsm)
Maximum Dimension: 6000 mm Width & 6000mm Height
Speed: up to 2.0 m/s (depending on the size & model)

These rapid Doors are designed for indoor use and ensure rapid transition operations between different areas that should remain separated. These safe and efficient industrial doors come with safety features like photocells and light barriers. The doors could be operated by simple Push Button, Radar, Magnetic Loop, Pull switch or by Hand held Remote control options.

The doors are of two types

- 1) **Rapid roll up – standard type:** Suitable for All standard Applications
- 2) **Rapid roll up – Self repairing type:** Suitable for Food & Pharmaceutical Industries, Car Wash, clean Room etc.

C



B



HIGH SPEED FABRIC FOLD UP DOORS

These doors are safe and fast, able to withstand high winds and to ensure safe opening and closing operations within large spaces. They consist of a frame made of steel bars covered with PVC, able to withstand very strong winds even up to 150 km/h.

Max Dimension : 12000mm x 10000mm
Material: PVC Fabric (900 / 1200 gsm)
Speed: 0.7 m/s

HIGH SPEED SPIRAL INSULATED SECTIONAL DOORS

These Technologically advanced New Spiral doors designed to separate different working areas, where different acoustic and thermal intensity or intended for different uses. These doors are extremely versatile and achieve very high speed of up to 2m/s.

The system is made of high density polyethylene, while the structure is made of aluminum panels or double-walled steel ensuring high thermal and acoustic insulation with the possibility to install polycarbonate windows.

High-quality materials and advanced technology make this door ideal for both outdoor and indoor use.

Curtain: Double skin Insulated Lath of thickness
 40mm / 50 mm / & 80mm
Max Dimension: 6500 mm W x 6000mm H
Speed: upto 1.1 to 2.0 m/s (depending on the size).

10

Energy Efficiency Solutions

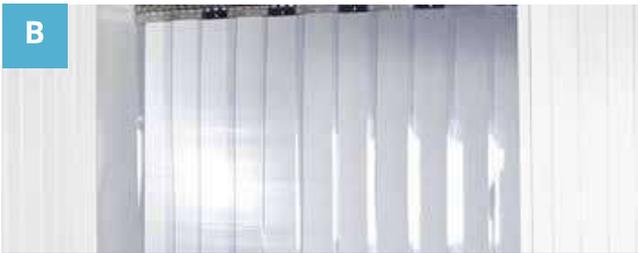
A



AIR CURTAINS

Air curtains are curtains of flowing air that is blown over the opening of an entrance or doorway not allowing air to flow through it. They are efficient in separating one environment from another. The technology with precisely adjusted air velocity gives an even protection through the door ways. Mitzvah provides best possible separation through lowest energy consumption.

B



PVC STRIP CURTAIN

PVC strip Curtain rolls is a cost effective solution for the openings requiring Temperature control. From standard smooth clear to heavy-duty low temp ribbed rolls, HMI Doors carries over 20 varieties to meet a wide array of needs. Available in Plain & Ribbed design strips both in Normal & Freezer Grade.

Sizes of: 200mm x 2mm Thick; 300mm x 3mm Thick and 400mm x 4mm Thick – in 50 meters Rolls

C



PVC FLAP DOORS / FLEXIBLE SWING DOOR

A cost effective solution to divide working areas in Industrial and Commercial Sites.

Structure: Made of GI, Stainless Steel or GI with Powder Coating.

Flexible Panels: Made of PVC for crystal Transparency and Double Layer Black Rubber for Aggressive environment.

11

Gates & Automation

A



PARKING BARRIER

HMI Offers wide range of barriers to suit your site requirements.

Available in 230V AC and 24V DC motors.

Barrier Arm Sizes: 3.5m / 6 m / 8m

Opening: By Push Button / remote/ Access Card / Long Distance Reader / Open by Mobile Phone / Magnetic Loop

B



BOLLARDS

C



SWING & SLIDING GATE OPERATORS

Gate Operators: Operators designed for Flexible automation to suit different type of frame, different duty cycle and different environment.

Swing Gate: Operators suitable for gates of dimension 3000mm up to 5000mm

Double Swing gate / single swing gate

Sling Gate Operators: Operators Suitable for gate weight of 300 kg, 500kg, 700kg, 1000kg, 1800kg and 3000kg.

D



TURNTILES [FULL HEIGHT & WAIST HEIGHT]

1 2

Docking Solutions

A Loading Capacity Standard 6Tons*/60kN Dynamic & 84kN Static; *other on request)



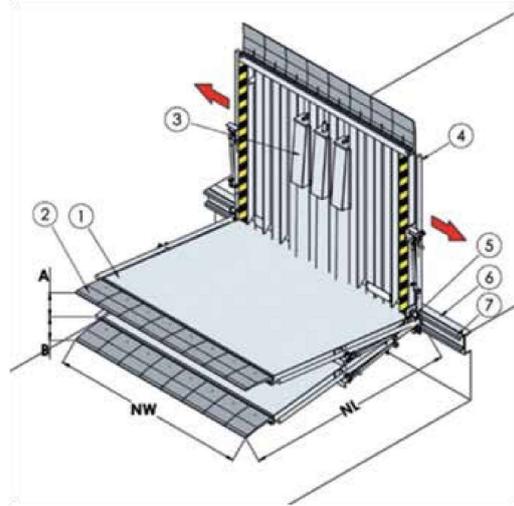
TYPE

- Swing Lip
- Telescopic Lip
- Tapered Lip

Width: 1750mm, 2000mm, 2200mm, 2250mm,
 Length: 2000mm, 2450mm, 3000mm, 3500mm
 Lip Length: Swing & Tapered - 400mm;
 Telescopic Lip- 500mm & 1000mm

DOCK LEVELERS

C



TYPE

- Fixed Drawbridge
- Sliding Type Draw Bridge

Width: 1500mm, 1750mm, 2000mm
 Length: 1250mm, 1500mm, 1750mm, 2000mm
 Capacity : 6 tons

DRAW BRIDGE
 [FIXED & SLIDING TYPE]

B



DOCK SHELTERS

Nominal Width: 3200mm, 3250, 3300,
 3350,3400, 3450, 3500, 3550, 3600mm
 Nominal Height: 3200 - 4700mm,
 Nominal Dept: 600/ 900mm;
 Top Curtain Height 1000/1200mm
 Side curtain 600 or 700mm

TYPE

- Mechanical
- Inflatable Dock Shelter

D



TYPE

- Single Scissors Lift
- Double Scissors Lift
- Custom made Scissors Lift

Width: 2000mm to 3000mm,
 Length: 1500mm – 3000mm

SCISSORS LIFT

DOCKING ACCESSORIES

E Bumpers, Vehicle Guide, Wheel Choke, Traffic Light

13

Motor Operators

A



Direct drive Motor with chain transmission
Available Motor Capacity (Kg) : 200, 300, 500, 600, 750, 800, 1000, 1200, 1500, 2000
Available in Single Phase and Bigger Models in 3 Phase Power Supply

ROLLING SHUTTER OPERATORS - EXTERNAL SIDE



Direct Drive Motor available in Motor Capacity (Kg) : 200, 300, 500
Available in Single Phase

ROLLING SHUTTER OPERATORS - TUBULAR



Spring Balance Door Motor
Suitable for Counter balanced doors up to 170 kg and 340 kg

ROLLING SHUTTER OPERATORS - CENTRAL MOTOR

B



Garage Door Operator (Trolley Type)
Solution for Sectional Overhead garage door for Residential use
Torque 700N / 800N / 1000 N
Trolley Length: suitable for 2500mm / 3000 mm Clear Height Door

Garage Door Operator (Direct Drive Type):
Fitted Directly to the shaft of the Sectional Garage Door. An ideal solution for openings having site conditions where trolley type roofing mounted installation is not possible.
Suitable for doors upto 20sqm and 35 sqm

SECTIONAL GARAGE DOOR OPERATORS

C



Keyed on driving shaft or featuring pinion and chain transmission, making other moving parts superfluous. Adjustable rotating limit-switch unit complete with 3 limit switches.
Fitting with pinion and crown favours adapting movement speed to one's own needs or installation when side space is restricted.

Making this motor complete with safety accessories and controls in compliance with standards in force.

Motor Capacity:
60 Nm (Single Phase)
65 Nm (ThreePhase)
Manual Operation in case of Power Failure: by Pull rope / Manual Chain

INDUSTRIAL SECTIONAL DOORS OPERATORS

D



(Dual Drive Operators)
Motors for counterbalance light duty Continuous profile Garage doors.

CONTINUOUS PROFILE DOOR MOTOR

E



REMOTES



CONTROL PANEL



PHOTOCELL



SAFETY EDGE



P.O. Box 127194
Al Mamzar One
United Arab Emirates

T: +971 4 2540 911
F: +971 4 2549 537

W: www.dnkengg.com