



**ARIAS EGYPT**  
FURNITURE AND EQUIPMENT





# CONTENTS

## **INTRODUCTION.....[ 3]**

STANDARDS & SPECIFICATIONS

## **METAL DOORS.....[ 4-5]**

<b>FI</b>	INSULATED DOORS
<b>LL</b>	LEAD LINED DOORS
<b>AD</b>	ACOUSTIC DOORS <b>LD</b>
	LOUVERED DOORS
<b>PD</b>	PERSONNEL DOORS
<b>SL</b>	SLIDING DOORS

## **SECURITY / DETENTION DOORS.....[ 6]**

**SBR** BURGLAR RESISTANT DOOR

## **TECHNICAL SPECIFICATIONS.....[ 7-11]**

STANDARD TECHNICAL DETAILS  
STANDARD DOOR FRAMES  
JAMB TYPES KNOCKDOWN  
FRAMES DOOR  
CONFIGURATIONS  
HANDLING DIRECTIONS

## **HARDWARE.....[12-14]**

STANDARD HARDWARE OPTIONS

## **STANDARD MATERIALS & FINISHES.....[15-18]**

Material specifications & Manufacturing Process



# STANDARDS & SPECIFICATIONS

Arias Metal Doors provide the best long-term value in the door and frame industry. It lasts longer, requires the fewest repairs, and is sturdier than other products.

Steel's natural strength also outperforms other materials in security, sound reduction, vandal resistance, sanitation, and more. Other door materials are still unable to match the performance and longevity of metal. Our metal doors offer endless options for attractive appearances. Whether you are looking for a modern stainless-steel appearance, a vibrant colored finish, or even a flux finish, metal's versatility allows it to satisfy the aesthetic requirements of any projects.

## Terminology

All critical, installation and functional tolerances will be in accordance with the industry tolerance published in and by the Steel Door Institute (SDI) and the Hollow Metal Manufacturer Association (HMMA).

The terms covered in this manual are in accordance with those published by:

- **SDI: ANSI A250.6** Recommended Practice for Hardware Reinforcing on Standard Steel Doors and Frames.
- **ANSI A250.7** Nomenclature for: Standard Steel Doors and Steel Frames.
- **ANSI A250.8** Recommended Specifications for Standard Steel. Door and Frames.
- **HMMA: HMMA 801-05** Glossary of Terms for Hollow Metal Doors and Frames.
- **HMMA 801-09** HOLLOW METAL DOORS.
- **HMMA 831-11** HARDWARE LOCATIONS FOR HOLLOW METAL DOORS AND FRAMES.
- **HMMA 861-06** GUIDE SPECIFICATIONS FOR COMMERCIAL HOLLOW METAL DOORS AND FRAMES.
- **HMMA 801-05**
- **NFPA80**



Humidity



Green Building Material



Antimicrobial



Acoustic Property



Fire Classification



Light Reflection



Cleanable



Bullet / Blast Resistance

# METAL DOORS

## INSULATED DOORS (FI)

Full range of insulated doors. Designed to suit the power substations, cold stores, heat transfers applications and other similar locations.

### FEATURES

- Has continuously foamed in-place insulation
- With non-conductive thermal break
- Smooth and flush exterior finish
- Excels in energy efficiency and durability
- Impact resistant.
- Interior and exterior usage.
- Light weight.



## LEAD LINED DOORS (LL)

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 equipment's 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 specified test standards. These doors are mainly used to provide radiation protection in hospitals and health clinics.

### FEATURES

- With lead sheets integrated into doors and frames for strength and vandal resistance
- Continuously welded, seamless door edge and

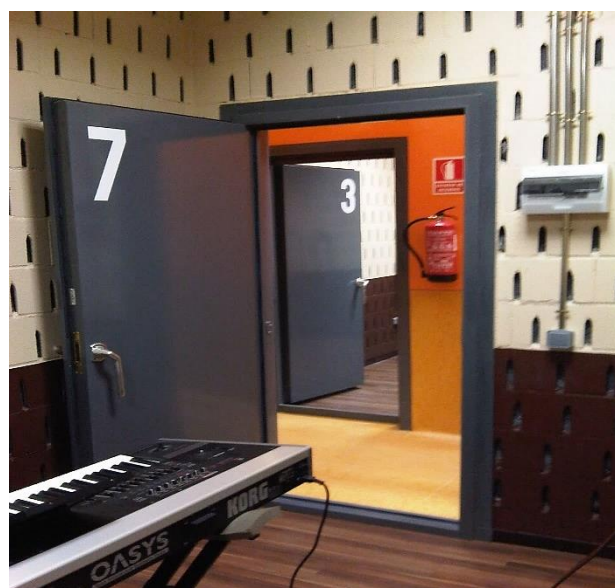


## ACOUSTIC DOORS (AD)

A complete range of single and double door sets to suit the performance up to RW53 to suit cinemas, studios, mechanical rooms, generator rooms and other sound polluted rooms.

### FEATURES

- Noise reduction up to 45db
- Double up as security doors
- Light weight.
- Long term performance and durability





## LOUVERED DOORS (LD)

We offer a wide variety of louver models and finishes within each category of louver types. The louvers serve a certain need and requirement within the air movement and control.

### FEATURES

- Promote airflow and stable the temperatures in rooms
- Secure key areas
- Wide range of security upgrades, vision panels, door viewers and access devices



## PERSONNEL DOORS (PD)

A complete range of single and double door sets designed to satisfy the varied requirement of general purpose internal and external applications.

### FEATURES

- Wide selection of sizes and style
- Quick and easy to install
- Available with variety of internal and external accessories

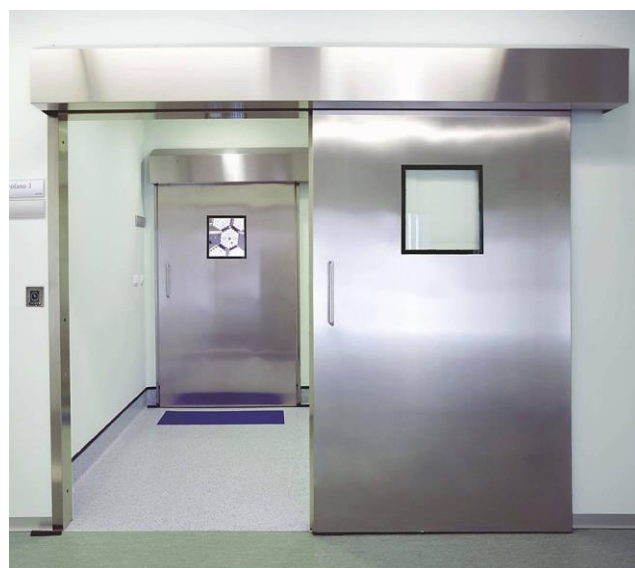


## SLIDING DOORS (SL)

Sliding doors are horizontally sliding, top hung, single or multi-panel, single or bi-parting doors. The doors have track and roller assembly with all necessary accessories required for smooth operation. These doors provide security for persons and goods in area like mass marketing, industrial storage etc.

### FEATURES

- Heavy duty steel ball-bearing, tandem roller assembly
- Stainless steel track inserts for sliding panels
- Painted finishes in standard and custom choices



# SECURITY DOORS

## BURGLAR RESISTANT DOORS (SBR)

Made of steel, the ultimate material for protection against violent attacks, anti-Burglary security door is made of a thick steel leaf (double 2 mm steel). The sectional frame and strong hinges are designed for extra strength. Dog bolts prevent tearing out of the door leaf even if the hinges have been severed. Solid steel reinforcements are integrated inside the leaf and frame, ensuring safety as well as aesthetic finish.

### FEATURES

- High quality anti-rust galvanized steel door
- Frames installed with mortar
- Polystyrene filling, thermal and acoustic insulation
- Resistant to climatic effects



# TECHNICAL SPECIFICATIONS



## STANDARD TECHNICAL DETAILS

### Steel Door set 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

### Options

Single and double door sets  
Single and double swing  
Side and over panels

Banks of door sets

Vision panels

Fully glazed

option block

louvres

Full range of premium hardware sets and accessories

### Frame Profiles

Materials: 1.50 - 2mm thick galvanized steel Profile:

See Jamb Types.

Jamb depth: 100 - 250mm

### Door Leaf Construction

Leaf thickness: 46mm Thick

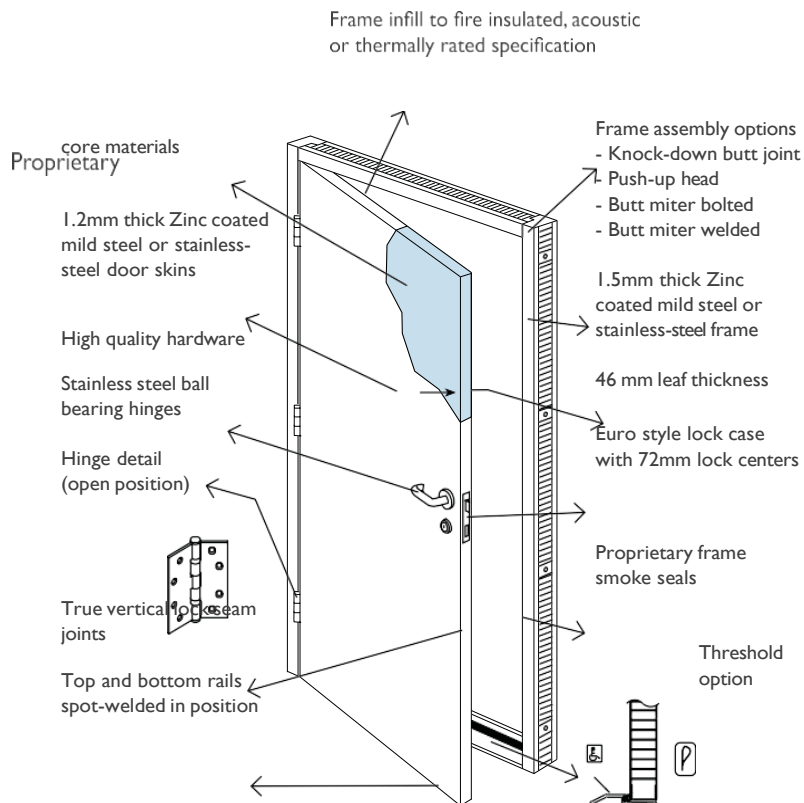
Material: 1.2 - 2mm thick galvanized steel

### Specification information

CAD drawings - DXF or DWG versions

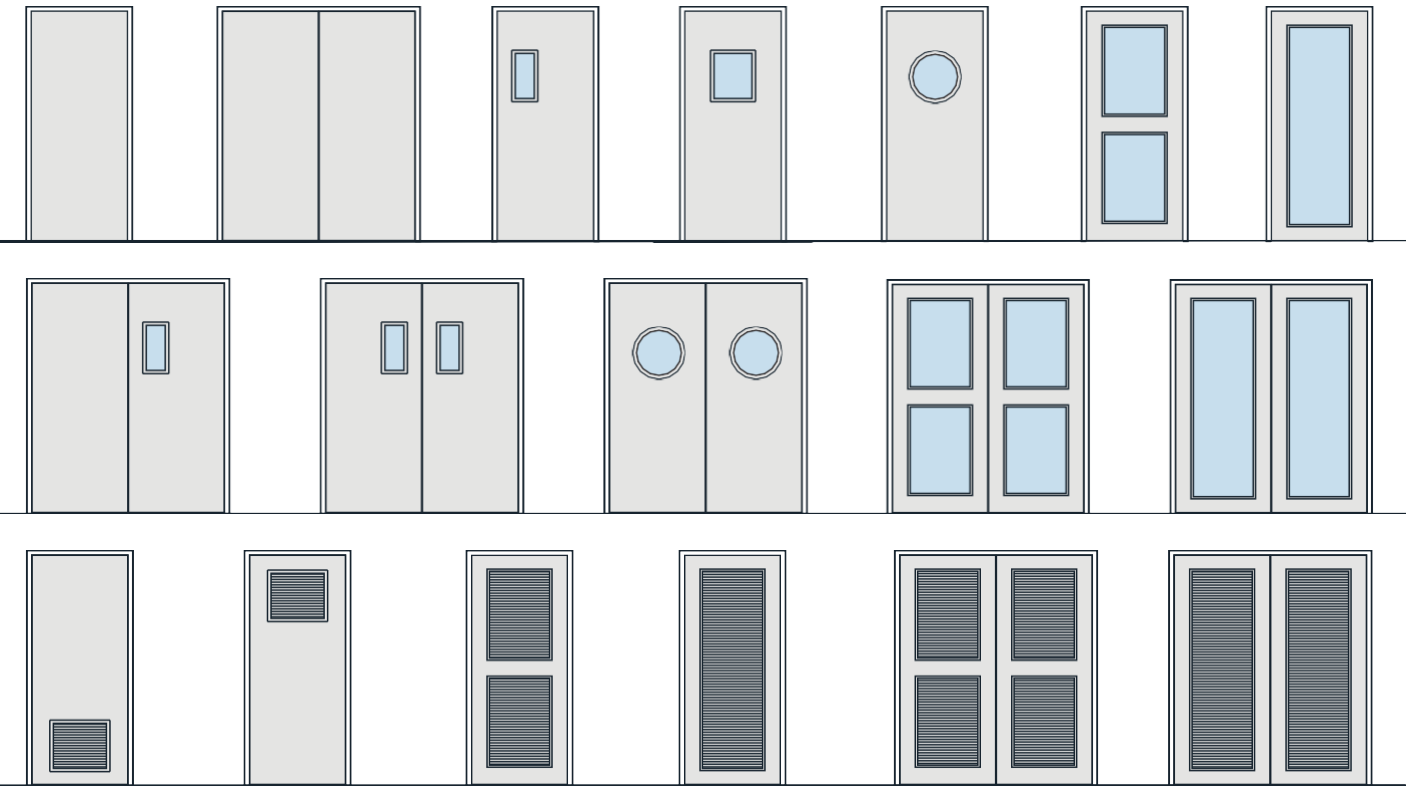
NBS Specification (Document L20-Doors/  
Shutters/Hatches)

### Door Features





DOOR CONFIGURATIONS



Note: Other door configuration can be available upon request.

HANDLING DIRECTIONS

SINGLE LEAF DOOR		DOUBLE ACTING DOORS	
<div> <div>INSIDE</div> <div>KEY</div> <div>OUTSIDE</div> <div>RH</div> </div>	<div> <div>INSIDE</div> <div>KEY</div> <div>OUTSIDE</div> <div>LH</div> </div>	<div> <div>INSIDE</div> <div>KEY</div> <div>OUTSIDE</div> <div>DA-RH</div> </div>	<div> <div>INSIDE</div> <div>KEY</div> <div>OUTSIDE</div> <div>DA-LH</div> </div>
<div> <div>INSIDE</div> <div>OUTSIDE</div> <div>KEY</div> <div>RHR</div> </div>	<div> <div>INSIDE</div> <div>OUTSIDE</div> <div>KEY</div> <div>LHR</div> </div>	<div> <div>INSIDE</div> <div>KEY</div> <div>OUTSIDE</div> <div>DA-RHA</div> </div> <div> <div>INSIDE</div> <div>KEY</div> <div>OUTSIDE</div> <div>DA-LHA</div> </div>	
DOUBLE LEAF DOOR		LEGENDS	
<div> <div>INSIDE</div> <div>OUTSIDE</div> <div>KEY</div> <div>R.H.A.</div> </div>	<div> <div>INSIDE</div> <div>OUTSIDE</div> <div>KEY</div> <div>L.H.A.</div> </div>	<div> L.H. = LEFT HAND  R.H. = RIGHT HAND  L.H.A = LEFT HAND ACTIVE  R.H.A = RIGHT HAND ACTIVE.  DA-LH = DOUBLE ACTING LEFT HAND  DA-RH = DOUBLE ACTING RIGHT HAND  L.H.R. = LEFT HAND REVERSE  R.H.R. = RIGHT HAND REVERSE  L.H.R.A = LEFT HAND REVERSE ACTIVE  R.H.R.A = RIGHT HAND REVERSE ACTIVE  DA-LHA = DOB. ACT. LEFT HAND ACTIVE  DA-RHA = DOB. ACT. RIGHT HAND ACTIVE </div>	
<div> <div>INSIDE</div> <div>OUTSIDE</div> <div>KEY</div> <div>R.H.R.A.</div> </div>	<div> <div>INSIDE</div> <div>OUTSIDE</div> <div>KEY</div> <div>L.H.R.A.</div> </div>		

# STANDARD DOOR FRAMES

## Material

Cold Rolled Steel, Galvanized Steel, Stainless Steel

## Thickness

Gauge	14	16	18
Millimeters	2.0	1.5	1.2

## Technical Data For Standard Frames (DXH)

Double Rebate Frame	150 x 50 mm		
Single Rebate Frame	150 x 50 mm	100 x 50 mm	
Frame Assembly	Mitered	Butted	Welded

## Standard Heights (Wall Openings)

Inches	6'	6'	7'	7'	8'
	10 <sup>3</sup> / <sub>5</sub> "	10 <sup>3</sup> / <sub>4</sub> "	2 <sup>5</sup> / <sub>8</sub> "	10 <sup>1</sup> / <sub>2</sub> "	10 <sup>1</sup> / <sub>4</sub> "
mm	2000	2100	2200	2400	2700

## Frames

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

## Features

- Available in Cold rolled, galvanized 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
- Electrostatic Primed and finish painted

## Optional

- Frames with Architrave
- Frames with inbuilt seals

## PREPARATION

### Hinge Jamb

5 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



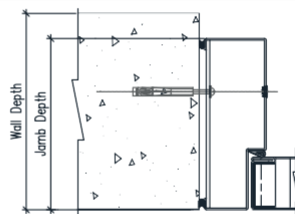
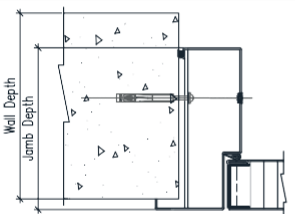
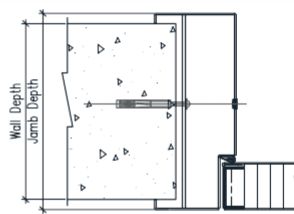
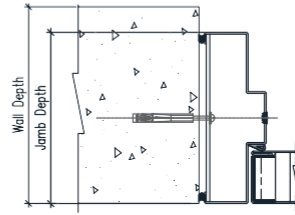
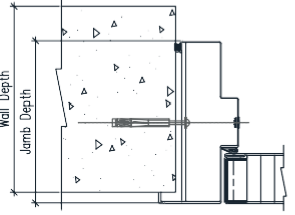
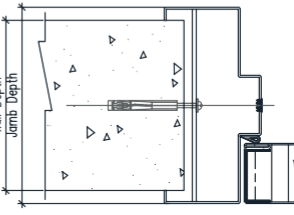
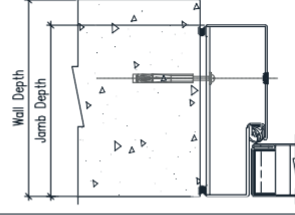
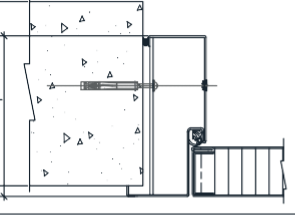
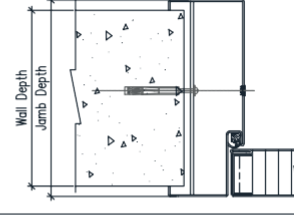
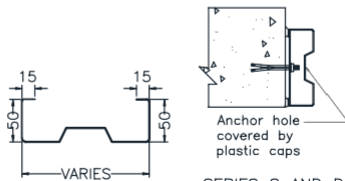
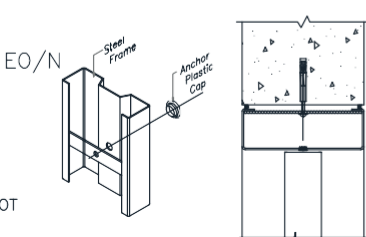
Hinge Jamb

Strike Jamb

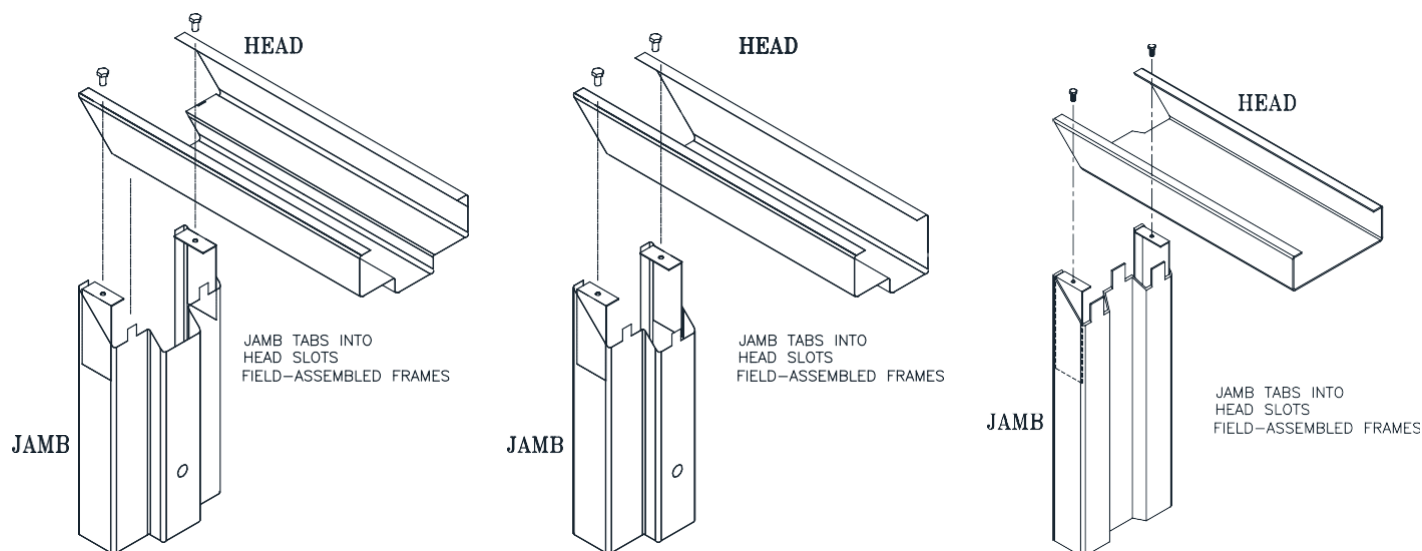
Hinge Mortar Guard

Strike Mortar Guard

# JAMB TYPES

	WITHOUT ARCHITRAVE	ONE-SIDED ARCHITRAVE	TWO-SIDED ARCHITRAVE
SINGLE REBATE			
DOUBLE REBATE			
SINGLE REBATE W/ SEAL			
SWING DOORS	<div><p>Anchor hole covered by plastic caps</p><p>SERIES S AND D STANDARDEO/N: SPOT WELDED TO SOFFIT</p></div> <div><p>EO/N Steel Frame Anchor Plastic Cap</p></div>		
<p>NOTE:</p> <ol style="list-style-type: none"><li>1. FRAMES VARIES AS PER CLIENT SIZE.</li><li>2. OUR MINIMUM FRAME STOP IS 19MM.</li><li>3. INSULATION VARIES AS PER REQUIREMENT: -Honeycomb -Rockwool -Polystyrene -Polyurethane</li><li>4. LEAF CAN BE ADDED WITH STIFFENERS</li></ol>			

# KNOCKDOWN FRAMES



# Hardware



**ASSA ABLOY**

The global leader in door opening solutions.



# STANDARD HARDWARE OPTIONS

## IRONMONGERY SET OPTIONS

To simplify the specification of ironmongery for your Steel Door sets, we have pre-selected a number of standard ironmongeries 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 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 centers making it compatible with the dimensional requirements of BS 8300. Produced in Grade 304 Stainless steel with a brushed finish.





## 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 fixing. 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 Door closer

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.

## Door Selector Door

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

## Door Stop

Floor Mounted door stop

## Mortice Lock cases

Lock cases have Euro style 72mm centers (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 (90x500mm)  
Fire door keep locked (80 x 80mm)  
Fire door keep shut (80 x80mm) 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.

## Lever Handle

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



Panic Device



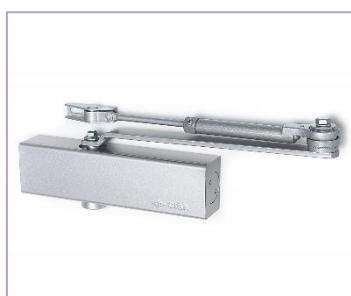
Outside Access Device



Pull Handle



Door Stop



Overhead Door Closer



Push Plate



Lever Handle



Escutcheons



Mortice Lock Cases



Hinges



Door Selector



Flush Bolt

# STANDARD MATERIALS & FINISHES

## MATERIALS:

- Galvanized steel
- Cold rolled steel
- Stainless steel grade 304 & 316

## FINISH PERFORMANCE:

- Corrosion-Resistant
- Cleanable
- Antimicrobial (Optional)

## FINISHES:

- Electrostatic Epoxy Powder Coated
- Electrostatic Polyester Powder Coated
- Electrostatic Textured
- Electrostatic Smooth
- Mirror Finish
- Brush Finish
- Standard RAL Colors

Note: Other finishes can be available upon request



# Material specifications & Manufacturing Process

## STEEL SHEET

Our doors are manufactured by cold rolled steel.  
That gives high durability and smooth surface

## PAINTING PROCESS

**Our painting is an electro-static powder coated product.**

These products are specially formulated to satisfy the highest demands of the doors industry to obtain very high **resistance to Scratch.**

Its excellent gloss retention and resistance to color change is combined with excellent properties. Our painting process follows these meticulous steps:

1. Cleaning: Acid washing, phosphating.
2. Drying.
3. Product examination.
4. Preparation: Polishing and Dedusting.
5. Acid resistant Epoxy powder automatic painting.
6. Drying at 200°C in special oven.
7. Cooling and packing.







## Head Quarter

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