



**Fire Technology**  
مصنع تقنية الإطفاء

## Hollow Metal Doors & Frame Catalogue



ISO 9001:2008



Leading National Factories for Hollow Metal Doors & Frame and Fire fighting Equipments.

INDEX



Fire Technology Factory		
01	Introduction .....	05
02	Factory Machinery .....	06
03	International Certificates .....	08
04	Hollow Metal Doors .....	10
05	Suggested Door Levels & Applications .....	13
06	Basic Door Styles .....	14
07	Fire Ratings .....	15
08	Fire Door Opening Direction .....	16
09	Door Frames .....	17
10	Type of Insulation .....	19
11	Hardware Details .....	20
12	Fire Zone & Access Doors .....	23
13	Door Seal .....	24
14	Standard Colour .....	25

Errors & Omissions  
Every effort has been made to ensure the accuracy and completeness of this Catalogue. The information herein is subject to some interpretation, and from time to time, the data sheets will be updated whenever it is deemed necessary as new tests are conducted, new products and technologies are introduced and as specifications are revised



## Fire Technology

مصنع تقنية الإطفاء

An introducing our selves – we are Fire Technology Factory – it is worth to say that we are one of the Leading National Factories in Saudi Arabia working in the field of Manufacturing Fire Fighting Equipment which includes:-

- 01 Hollow Metal Doors & Frame (UL Listed Fire Rated / Non Fire Rated).
- 02 Fire Hose Reel (Rubber / Synthetic) Cabinets (All Types).
- 03 Fire Hose Rack Cabinets (All Types).
- 04 Fire Suppression System (FM 200, CO<sub>2</sub>, Novec1230, Fire Trace).
- 05 Water Mist System.
- 06 Foam Systems (Stationary, Mobile).
- 07 Foam Bladder Tanks (All Types).
- 08 Fire Pumps (All Capacities & Types).
- 09 Beside Other Related Industries.

Our Factory has holding International certificates such as Quality Management System (ISO 9001: 2008), International certificate of American underwriters laboratories (UL) for Fire Rated Doors and we are member of (NFPA) National Association Fire Protection.

Our factory is equipped with the latest and most modern CNC machinery to co-op with the advanced & most accurate products in Fire Fighting Equipment filed as well as to increase our productivity to satisfy our customer's need on time.

Beside high advanced machinery also have Engineering / Design Department & Technicians are very Educated & Trained for the jobs to assign. We look forward make mutual & fruitful business with your esteemed establishment. For any clarification, please feel free to contact us at the following:-

### Fire Technology

مصنع تقنية الإطفاء

2742 rawdah at tanha - az zahra  
Ar Riyadh 12812 - 6620  
Phone : +966 11 478 3303  
Fax : +966 11 292 2316

E-mail : [info@firetech.sa](mailto:info@firetech.sa)  
Website : [www.firetech.sa](http://www.firetech.sa)

Some of our Partners

SIEMENS

GIACOMINI  
Technology in Charge

Danfoss  
SEMCO  
FIRE PROTECTION

HOCHIKI

CROKER

## Factory Machinery

- CNC Punching Machine.
- CNC Bending Machine.
- NC Shearing Machine.
- Corner Cutting Machine.
- Corner Drilling Machine.
- Polyurethane Filling Machine.
- Mig welding Machine.
- Spot welding Machines.
- Arc Welding Machines.
- General tools
- Powder Coating Line ( 35M x 25M).
- Chemical Treatment Line.
- Spray Painting booth.
- Multi Layers Pressing Machine (Hydraulic).





ISO 9001:2008





Hollow Metal Doors & Frame

## Hollow Metal Doors & Frame



Our innermost interest is to gain high client's specifications from high quality products which comply the international standards.

Our capabilities in manufacturing and design allow us to customize our client specifications.

To ensure high a manufacturing accuracy , on time delivery and easy installation , our factory is equipped with the latest CNC machines and utilizing the best materials beside skilled and well experienced technicians.








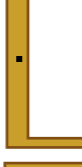




### Fire Door Sets:

We provide the fire door series different grades and various sizes applicable for any place. The design is made strictly following the International Standards. The Fire door has strong fire resisting stability, High performance of fire resisting integrity, and extraordinary thermal Insulation, appropriate for being used in building structures with high fire resisting requirement, and place densely populated.

## Suggested Door Levels & Applications

Building Types	Standard Steel Door Levels				Door Design Nom
	Level 1 Standard Duty	Level 1 Heavy Duty	Level 3 Extra Heavy Duty	Level 4 Maximum Duty	
<b>Apartment</b>					FTF100, FTG100, FTV100, FTFG100, FTNV100, FTTL100
Main Entrance					
Unit Entrance					
Bedroom					
Bathroom					
Closet					
Stairwell					
<b>Dormitory</b>					
Main Entrance					
Unit Entrance					
Bedroom					
Bathroom					
Closet					
Stairwell					
<b>Hotel - Motel</b>					
Unit Entrance					
Bathroom					
Closet					
Stairwell					
Storage & Utility					
<b>Hospital - Nursing Home</b>					
Main Entrance					
Patient Room					
Stairwell					
Operating & Exam					
Bathroom					
Closet					
Recreation					
Kitchen					
<b>Industrial</b>					
Entrance & Exit					
Office					
Production					
Tool					
Trucking					
Monorial					
<b>Office</b>					
Entrance					
Individual Office					
Closet					
Stairwell					
Equipment					
Boiler					
<b>School</b>					
Entrance & Exit					
Classroom					
Toilet					
Gymnasium					
Cafeteria					
Stairwell					
Closet					

## Basic Door Style

	<b>FTF 100</b> Fire Technology Flush Type		<b>FTG 100</b> Fire Technology Glass Type
	<b>FTV 100</b> Fire Technology Vision Type		<b>FTDG 100</b> Fire Technology Double Glass Type
	<b>FTVL100</b> Fire Technology Vision & Louver Type		<b>FTGL 100</b> Fire Technology Glass & Louver Type
	<b>FTNV100</b> Fire Technology Narrow Vision Type		<b>FTFG 100</b> Fire Technology Full Glass Type
	<b>FTNVL100</b> Fire Technology Narrow Vision & Louver Type		<b>FTDL 100</b> Fire Technology Double Louver Type
	<b>FTTL 100</b> Fire Technology Top Louver Type		<b>FTFL 100</b> Fire Technology Full Louver Type

## Fire Ratings

Opening	Door and Frame Rating	Description and Use
	<b>3 - 2 Hours (180-120 min.)</b>	These openings are in walls that separate buildings or divide a single building into designated fire areas.
	<b>1-1/2 Hour (90 minute)</b>	Openings of this type are used in enclosures of vertical communication or egress through buildings. Examples of these types of openings include stair walls and elevator shafts.
	<b>1 Hour (60 minute)</b>	These door and frame assemblies divide occupancies in a building.
	<b>3/4 Hour (45 minute)</b>	For use where there are openings in corridors or Room partitions.
	<b>1-1/2 Hour (90 minute)</b>	This opening is in a wall where there is the potential exterior of the building.
	<b>3/4 Hour (45 minute)</b>	This opening is in an exterior wall that has the potential to be exposed to moderate to light fire from the exterior of the building.
	<b>1/3 Hour (20 minute)</b>	These openings are in corridors where smoke and draft control is required. The minimum wall rating is 1/2 hour.

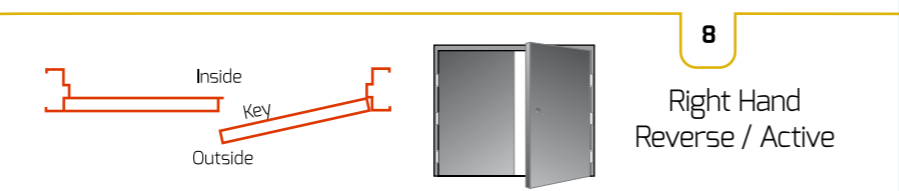




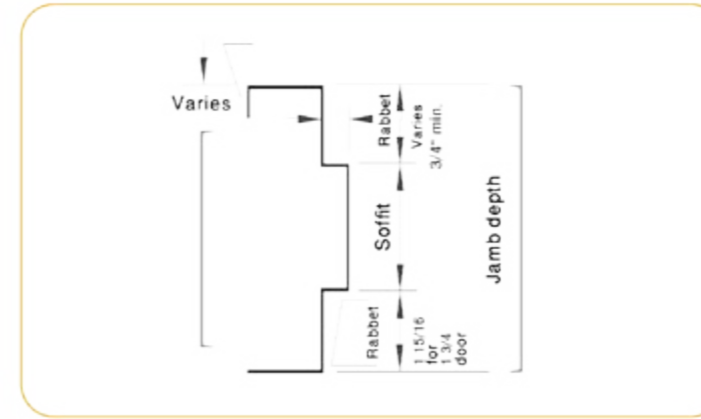
### Single Doors



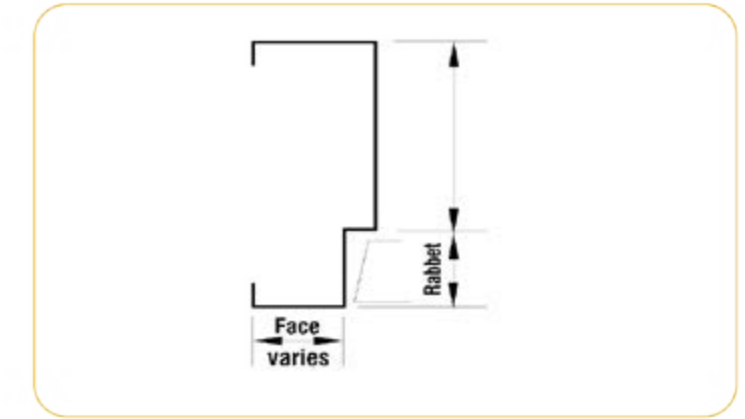
### Double Doors



All applications of door frames are manufactured standard thickness, all door hardware are supported with additional steel reinforcing plates.

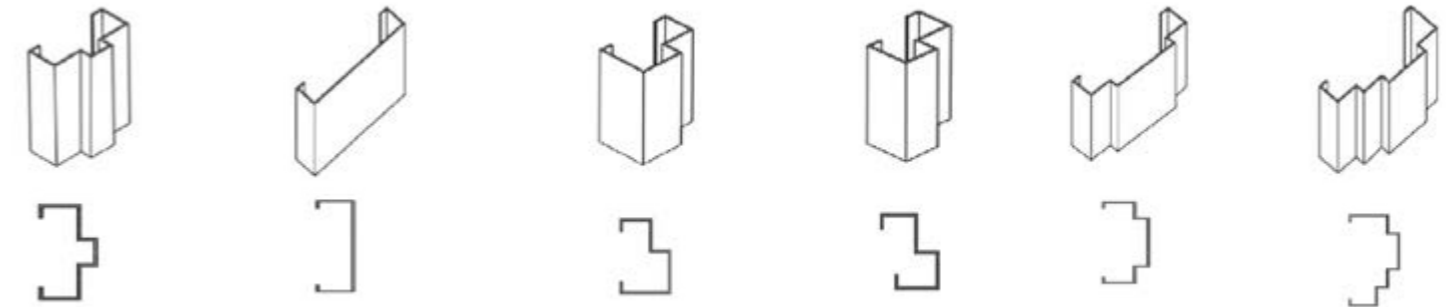


DOUBLE RABBET



SINGLE RABBET

OTHER FRAMES PROFILE

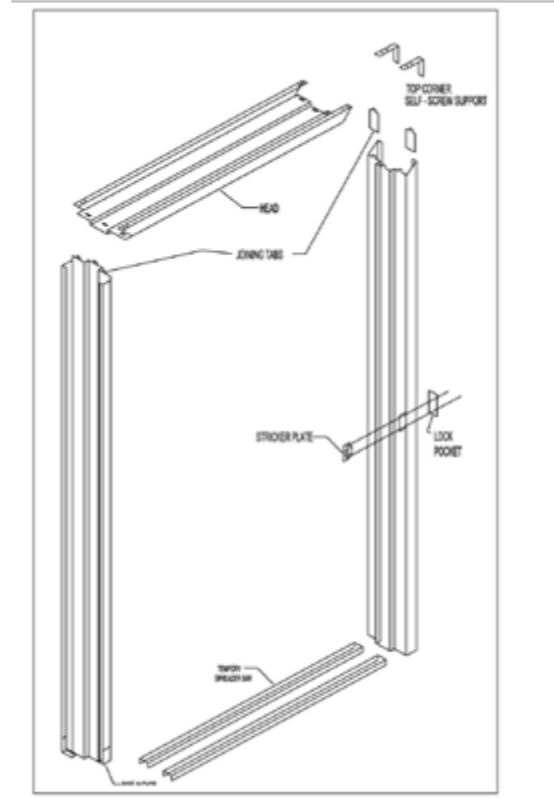


Note: Dimensions & Specification are international standards (Height, Width, Depth & Thickness) also available upon the request.

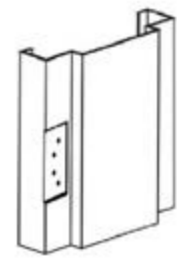
WELDED TYPE



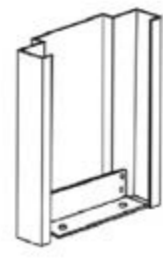
KNOCK - DOWN TYPE



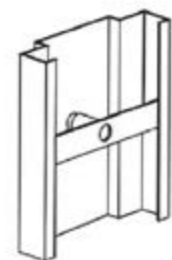
FRAME ACCESSORIES



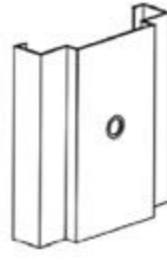
Hinge



Welded in floor anchor



Anchor Support



Anchor

Notes:

- All Specs Door Frames are supplied with fully Engineered «Slot and Tab» corner connection methods. This ensures the highest level of accuracy and mechanical strength.
- Frames can be site assembled or where they are welded for additional strength, ground flush and primed to improve their aesthetic appearance.
- Is available Knock Down or welded. All other frames with custom face dimensions must be welded prior to installation.



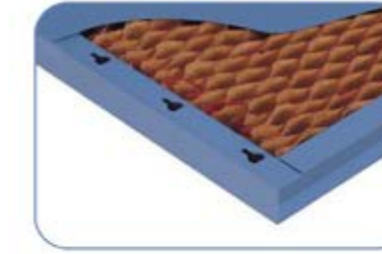
Polyurethane Core

Polyurethane Core are tow component fluorocarbon blown spray system, based on polymeric MDI & produced rigid, closed cell urethane foam having a normal core density of 35kg/m<sup>2</sup>.

Designed with good temperature range & is suitable for application in high ambient temperature.

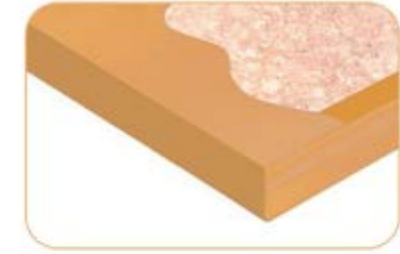
Factory applied from our computerized injection machine.

Commonly used for non-fire rated door range.



Honeycomb Core

Honeycomb Core is made from layers of paper or cardboard together by parallel & uniformly spaced lines of adhesive, light weight & high strength. Glued to the interior surface of the door skin M door leaf is the pressed for a couple of hours to maintain the flatness of the door. Compressive strength is equal to 1.4kg/m, Commonly used for UL 10B fire rated doors.



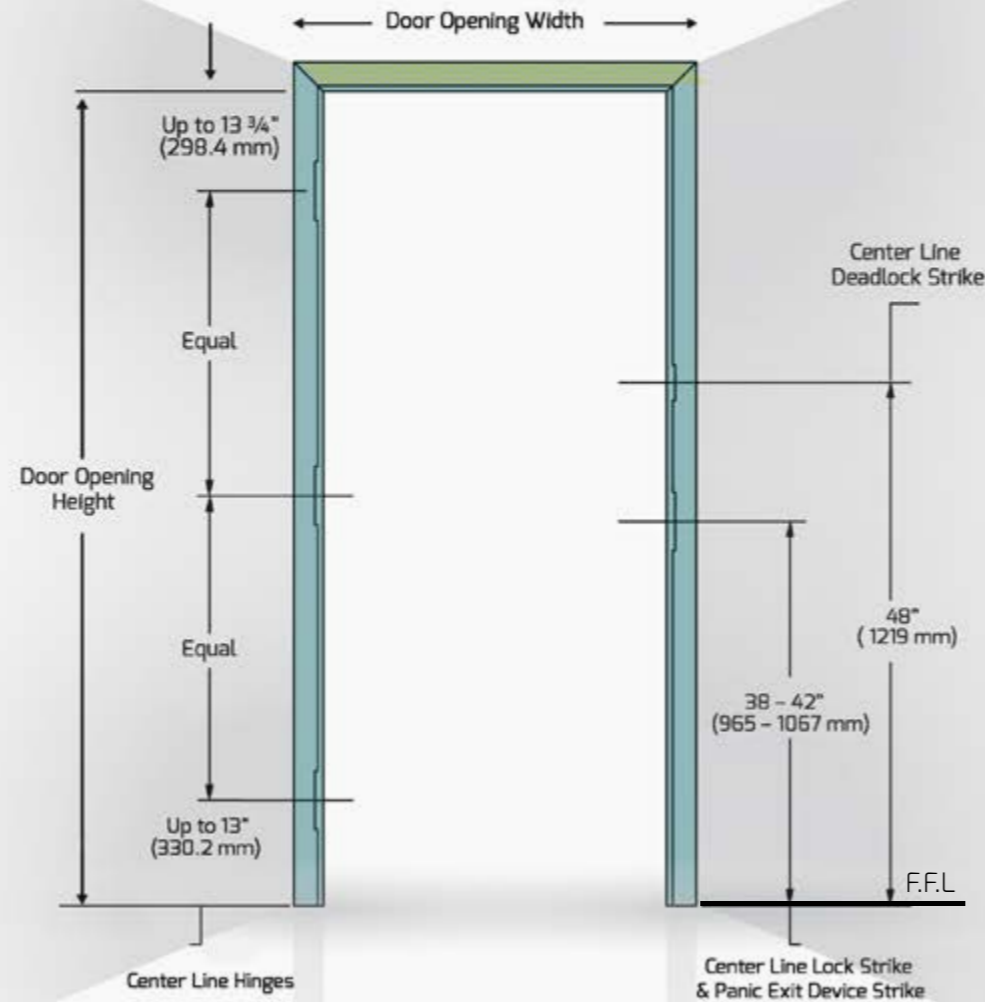
Rock Wool / Mineral Core

Rock Wool / Mineral Core made from molten basalt rocks spun to fine fibers & bonded with thermosetting phenol resin used for thermal insulation, acoustical & fire barrier.

provide with suitable vertical stiffeners.

Commonly used for our fire rated doors.

Hardware Locations

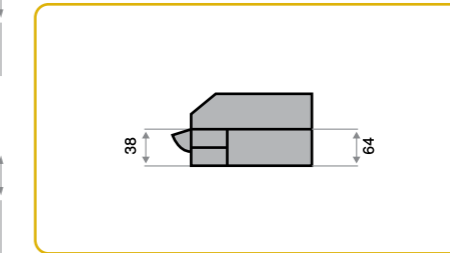
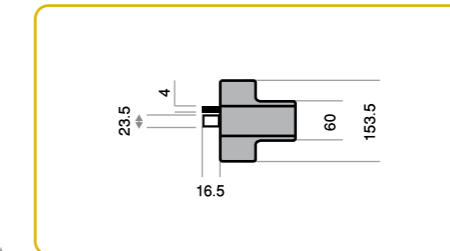
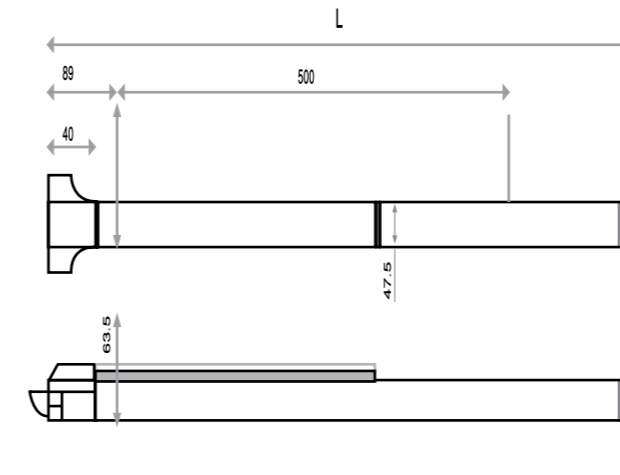


Door Hardware (Accessories)

MORTISE PANIC DEVICE



Units: mm



RIM FIRE EXIT DOOR



- Non - handed
- A lateral lock point, Stainless steel or Zinc latch bolt.
- The standard oval shape horizontal bar:900mm.
- CE marked for safety.
- Certified for use on the fire doors.
- Assembly instructions and installation template.

Device 33" and 42"

Material

- Head Cover ..... Zinc ally / Stainless Steel.
- Chassis ..... Steel painted / Stainless Steel.
- End Cap ..... Steel Painted / Stainless Steel.

Door Hardware Accessories



DOOR CLOSER



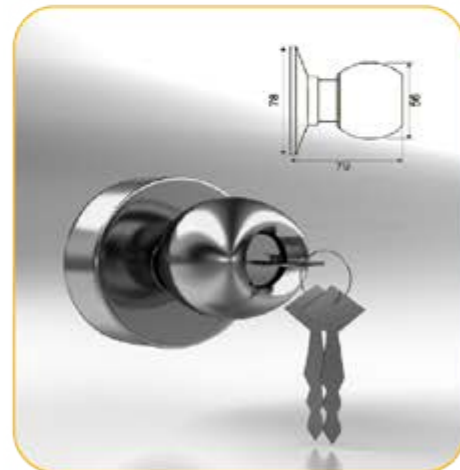
STAINLESS STEEL HINGE



LEVER HANDLE



LEVER HANDLE "L" TYPE



ROUND LOCK



FLUSH BOLT

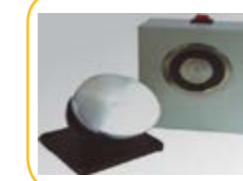
Fire Zone & Access Doors



FIRE ZONE DOORS:

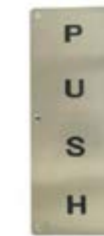
Separation of corridors is essential for fire protection, but unfortunately most fire doors are heavy and difficult to move. As a result they are often propped open, defeating the purpose of having a fire door in the first place.

Fire Technology Factory Fire Zone door package; consisting of Swing master & Power Swing automatic door operator, offers both fire protection and convenient hands – free access in every corridor.



Magnetic Door Holder

Magnetic door holder is designed to retain a fire door open, against the force of its own closing device. In the event of a fire, the door holder magnet can be turned off by the fire alarm, allowing the door to shut. An optional Floor mounting bracket is also available. There are 2 versions, 24 V DC and 240 V AC. The 24 V DC door holder requires either a panel with a 24 V DC output, or a separate 24V PSU (Power Supply Unit). This can be switched through the FACP (Fire Alarm Control Panel) aux relay, but it might need back EMF diodes fitted to the Door Holder



Push Plate Sign

Swing Hinges



ACCESS DOORS:

The access door industry in the 21<sup>st</sup> century is one that requires in depth knowledge of the industry, constant customer contact and adaptability to the changing demands of the market place. We continue to accomplish that in this competitive business environment.

Although we are able to be flexible in the market both Nationally and internationally, one thing has remained constant through the years: Our absolute commitment to the highest and most consistent quality of our products in the access door industry.



ACCESS DOOR HINGE



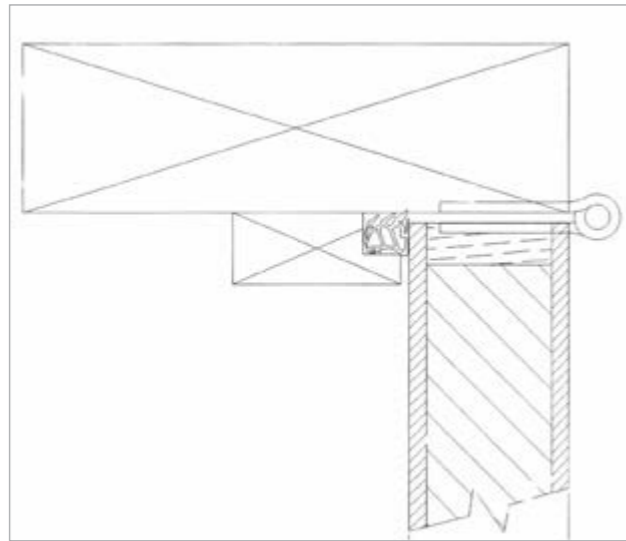
ALLEN KEY LOCK



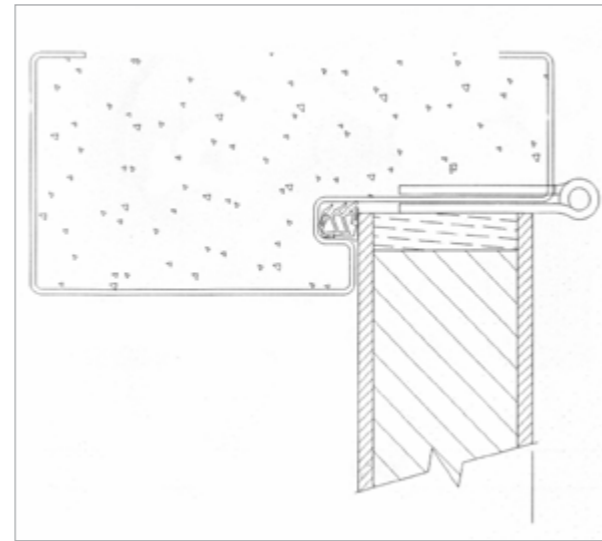
Life safety are door sets which have smoke leakage, and also fire ratings. In recent years the demand for ( Smoke Door ) has increased, lagly due to the proliferation of Fire Engineered building. In many cases the door set required by the Fire Engineer's design calls for both smoke and fire resistance. Only Life Safety Doors offer a tested and certified solution for smoke/fire applications in both single and pair door combinations.

Application:

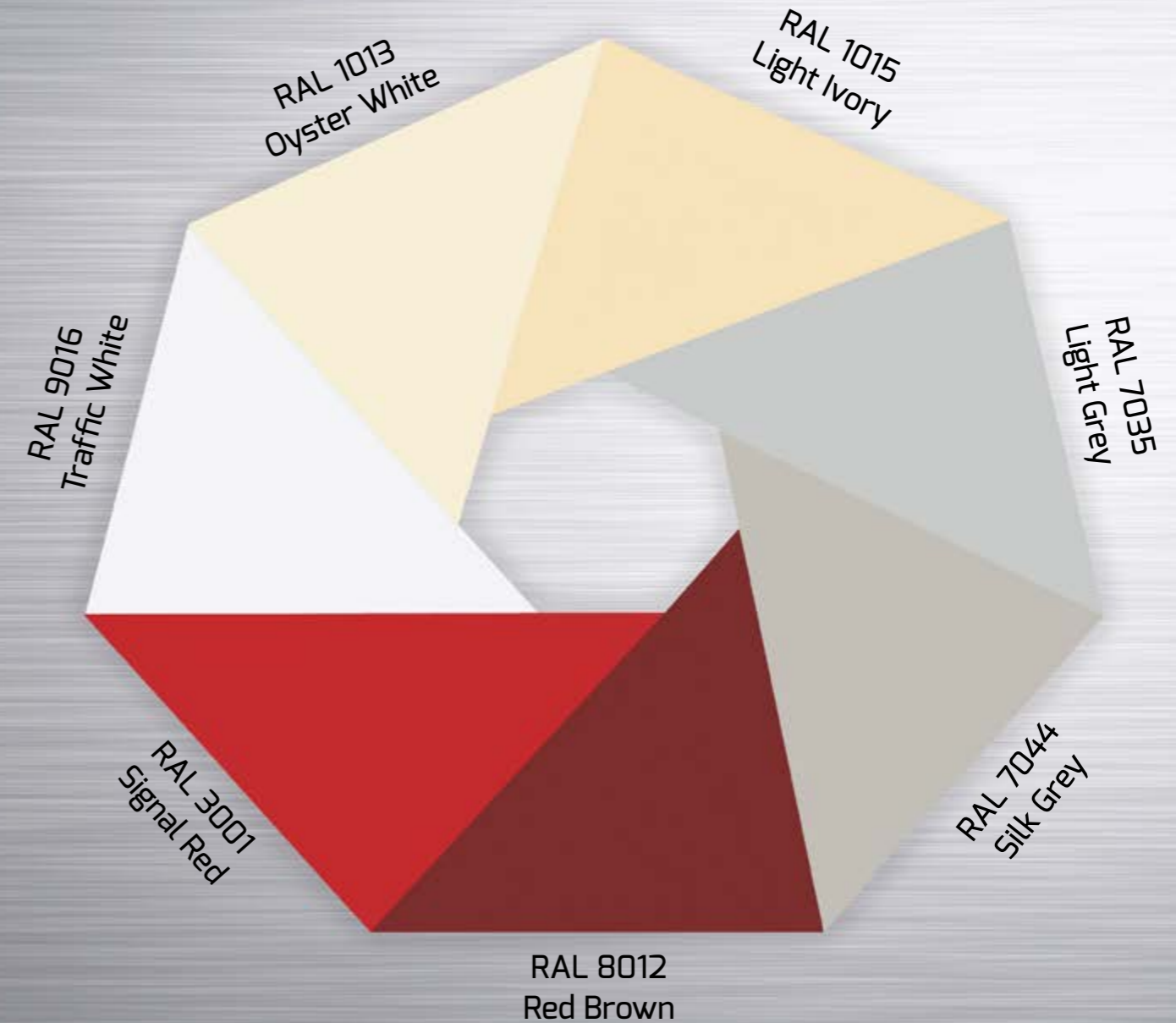
- Relief from slamming.
- Fire resistant.
- Stops light.
- Smoke seal.
- Dust seal.
- Durable.
- Unobtrusive.
- Total protection from traffic.



Typical Detail for Steel Door Frame



Typical Detail for Timber Door Frame



Notes:





Fire Technology  
مصنع تقنية الإطفاء

Saudi Arabia - Riyadh - Head Office  
2742 rawdah at tanha - az zahra  
Ar Riyadh 12812 - 6620  
Phone : +966 11 478 3303  
Fax : +966 11 292 2316

E-mail : [info@firetech.sa](mailto:info@firetech.sa)  
Website : [www.firetech.sa](http://www.firetech.sa)