



BLAZE

FIRE RATED DOOR

Honeycomb & Rockwool



**BLAZE**

Fire Doors

Access Panel Door

**Specifications:**

Type :	Single and Double
Door thickness :	45 mm
Finish :	Factory polyester powder coating
Astragal :	On active leaf of double doors
Top/Bottom Channels :	Inverted U-Channel

Fire Ratings:

According to BS EN 1634-1 standards Integrity up to 180 minutes.

Standard	Infill	Door	Range	Frame Height (mm)	x	Frame Width (mm)	Fire Rating (Min)
BS EN 1634-1	Honey comb	Single	From To	2293	x	1198	90, 120, 180
				2519	x	1097	
BS EN 1634-1	Honey comb	Double	From To	2293	x	2294	90, 120, 180
				2519	x	2092	
BS EN 1634-1	Rockwool	Single	From To	2501	x	1198	90, 120, 180
				2749	x	1097	
BS EN 1634-1	Rockwool	Double	From To	2501	x	2294	90, 120, 180
				2749	x	2092	

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Technical Specification

Fire Rated Doors

No.	Fire-Rated Steel Doors
1	Door Specification : 3 hour fire rating as per ANSI / UL 10C & CAN / ULC-S104
2	Door Leaf 45 mm thick.
3	Door Leaf Skin 1.5 mm thick.
4	Door Leaf Insulation : Rock Wool / Honey Comb.
5	Door Leaf Construction : Double Skin with Stiffener.
6	Door Frame Type: Three-sided, size 50x100mm single rabbet non-kerf without architrave, with smoke seal.
7	Door Jamb Depth: 100 mm.
8	Door Frame Skin 1.5 mm thick.
9	Door Frame Construction: three-sided frame, butt joint corners. Welded on the joint of head and jamb for single door. Fixed by screws on the joint of head and jamb (knockdown type) for double door.
10	Temperature Rise Rating 650°F (361°C).
	What is temperature rise rating? The temperature rise test assesses the ability of a fire-rated door to limit the transfer of heat from the fire-exposed side to the non-fire side. This is especially important in areas where occupants may need to pass by or touch the door during an evacuation.
11	Door Frame Anchoring : Expansion Shell - Anchor.
12	Door Frame & Leaf Material : Steel Zinc-Phosphate Pre-treatment Process.
13	Vision Frame with fire-rated glass included where it is required.
	Fire-Rated Glass : Clear, colorless highly transparent without amber tint which is advantage in actual fire incident for visibility and safety.
	What is Amber Tint ? Amber Tint means the glass has a warm, golden-brown/orange hue, similar to amber gemstone or honey.
14	Reinforcement included for door hardware.
15	Door Finish : Powder Coating.
16	Door Color available : Matt White, Matt Red, Matt Blue, Matt Light Grey, Matt Dark Grey.

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BLAZE



Fire Doors

Ironmongery For Fire Rated Doors

Overhead Door Closer



- UL Listed
- Suitable for Left and Right Hand Application
- Suitable for Fire Door use in all Applications
- Delayed Action Version Available
- Simple Power Size Adjustment with Supplied Key
- Two separate valves adjustable closing and latching speed
- Applicable to fire rated door : UL

External Lever Trim



- Ideal for public/office doors here a more ergonomic operation is a necessary requirement.
- Grade 304 Stainless Steel, Zinc Alloy
- Suitable for all domestic, commercial and industrial use.
- Applicable to fire rated door : UL , BM TRADA, and Intertek

Door Stopper



- Small shielded half moon shaped door stop with a substantial rubber buffer to protect doors.
- Floor mounted type □ Stainless Steel
- Suitable for domestic and commercial use.
- Applicable to fire rated door : UL , BM TRADA, and Intertek

Push Bar Panic Latch



- UL 10C Fire Rated for use on and metal doors
- Security Anti-Thrust latch
- Touch bar length of device : 500mm
- Available in different finishes.
- Applicable to fire rated door : UL

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Fire Doors

Ironmongery For Fire Rated Doors

Hinge



- UL Listed 3 Hours fire rating
- All hinges with 5 knuckle
- Dimensions and Tolerances confirm to ANSI-A 156.7
- Ball bearing hinges have always been very popular for their smooth operation, durability, long lasting design and ability to carry heavier loads.
- Applicable to fire rated door : UL

Hinge



- The most popular type of door hinge on the market today.
- They have a CE mark and are Certifire tested.
- Suitable for industrial, commercial and domestic use.
- Ball bearing hinges have always been very popular for their smooth operation, durability, long lasting design and ability to carry heavier loads.
- Applicable to fire rated door : BM TRADA and Intertek

Lever Handle



- EN1634 Fire rated Certification
- A substantial 19mm round bar return to door safety lever.
- Ideal for public/office doors here a more ergonomic operation is a necessary requirement.
- Grade 304 Stainless Steel, Zinc Alloy
- Suitable for all domestic, commercial and industrial use.
- Applicable to fire rated door : BM TRADA and Intertek

Overhead Door Closer



- Overhead Door Closer Variable Power Size 2-5. Delayed Action. Certified to BS EN 1125 and BS 8300 to meet the needs of disabled people. CE marked and Certifire tested. Suitable for Left and Right Hand Application.
- Suitable for Fire Door use in all Applications
 - Delayed Action Version Available
 - Simple Power Size Adjustment with Supplied Key
 - Applicable to fire rated door : BM TRADA and Intertek

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**BLAZE**

Fire Doors

Ironmongery For Fire Rated Doors

Push Bar Panic Latch



The single push bar panic door kit would usually be found on a fire exit door in commercial and industrial premises. This system has a dogging function for easy use with a 'hold-open' action which enables the exit door to be used as a normal service door during the day. Bolt retracts, permitting free access.

- Certified to BS EN 1125. CE mark and Certifire tested.
- Aluminum finish.
- Applicable to fire rated door : BM TRADA, and Intertek

Sash Lock



The Latch bolt has the Easi-T reverse function to save undoing the case so it can be reversed in seconds.

- BS EN 12209 Rated. Used as a matter of course by the national house builders.
- It has been CE and Certifire tested.
- Suitable for use in all domestic, industrial and commercial environments.
- Applicable to fire rated door : BM TRADA, and Intertek

D-type Pull Handle



- Range in grade 304 Stainless Steel, so ideal for internal and external homes and offices.
- Available in different sizes.
- These pull handles are fixed with 2 no M8 threaded bolts through the door giving the strongest fixing possible.
- Fire door rated. □ Suitable for domestic and commercial use.
- Applicable to fire rated door : Intertek and BM Trada Full glazed door

Escutcheon



- provide a high degree of security, having met the standards identified by Secured by Design the UK policed flagship initiative.
- Features include; anti drill, anti pick, anti bump, fire door rated.
- Certified to British/European standards (BS EN 1303). Keyed alike or master keyed options available.
- Suitable for domestic, commercial and industrial use.
- Applicable to fire rated door : UL, BM TRADA, and Intertek

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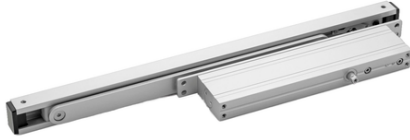


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Fire Doors

Ironmongery For Fire Rated Doors

Slim Door Closer



Concealed Slim Door Closer

- Carries the CE mark and is Certifire accredited.
- Certified to BS EN 1154 and BS 8300 to meet the needs of disabled people
- Suitable for all domestic, commercial and industrial use.
- Suitable for Left and Right Hand Application
- Suitable for Fire Door use in all Applications
- Applicable to fire rated door : Intertek and BM Trada Full glazed door

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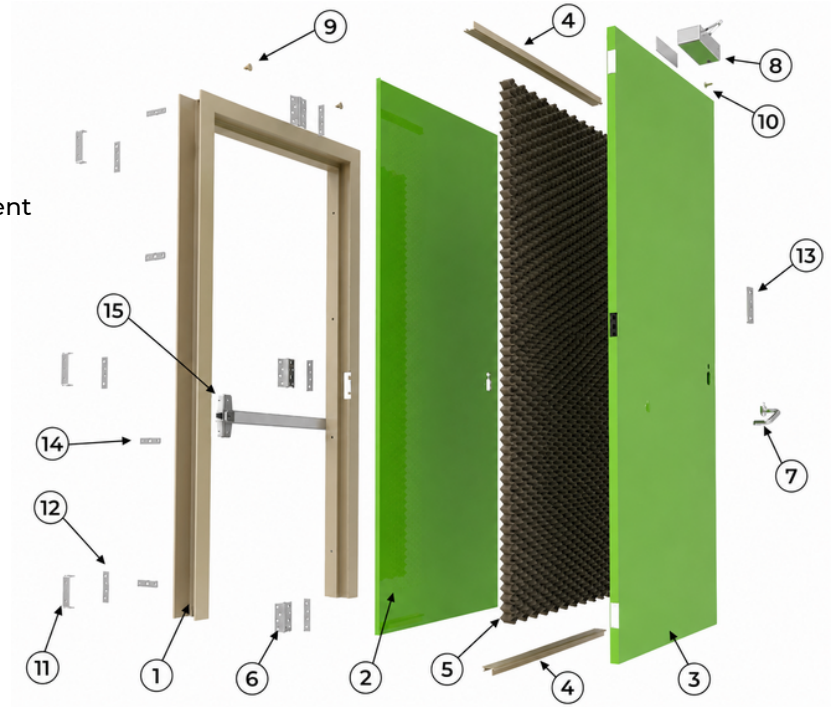
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Fire Doors

Door Components

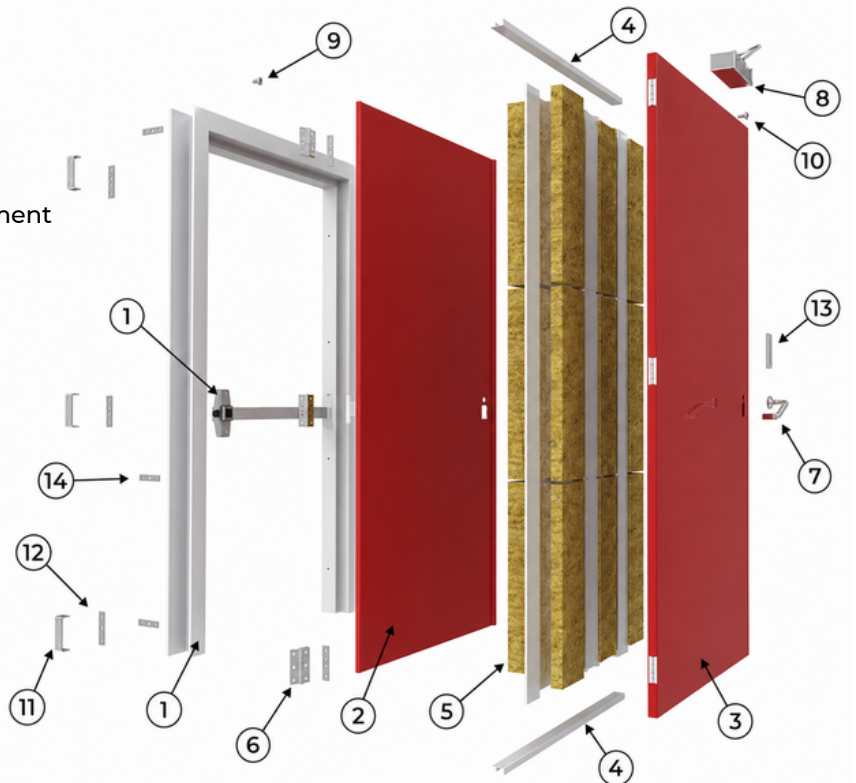
Honeycomb Core Door

- | | |
|------------------------|-------------------------------|
| 1. Door Frame | 9. Door Silencer |
| 2. Door Cover | 10. Door Closer Reinforcement |
| 3. Door base | 11. Hinge Cover |
| 4. Inverted U channels | 12. Hinge Plate |
| 5. Honeycomb | 13. Lock Cover |
| 6. Ball bearing Hinge | 14. Frame jamb support |
| 7. External Lever Trim | 15. Push bar panic latch |
| 8. Door Closer | |



Rockwool Core Door

- | | |
|------------------------|-------------------------------|
| 1. Door Frame | 9. Door Silencer |
| 2. Door Cover | 10. Door Closer Reinforcement |
| 3. Door base | 11. Hinge Cover |
| 4. Inverted U channels | 12. Hinge Plate |
| 5. Rockwool | 13. Lock Cover |
| 6. Ball bearing Hinge | 14. Frame jamb support |
| 7. External Lever Trim | 15. Push bar panic latch |
| 8. Door Closer | |



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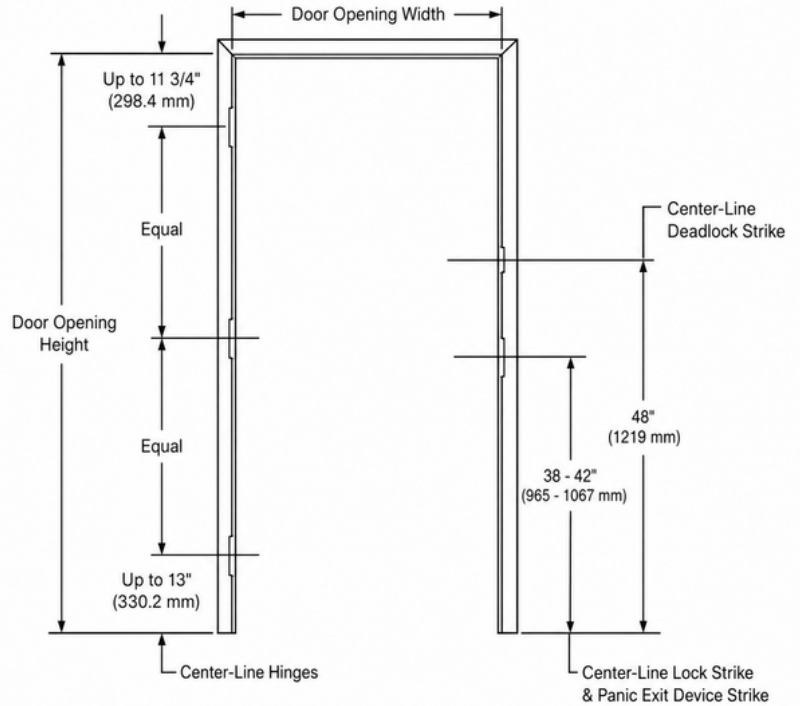
Fire Doors

Standard Door Frame Details

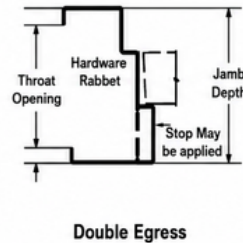
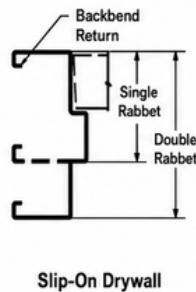
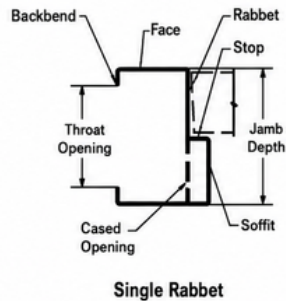
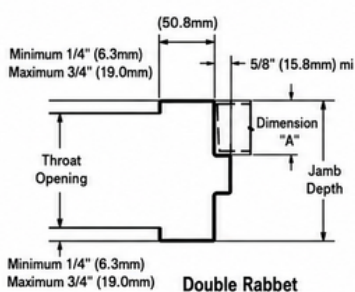
Door Frame

Material: Galvanized Steel

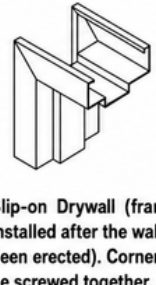
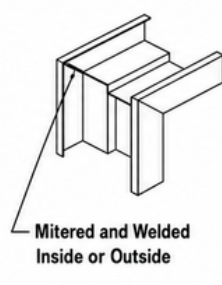
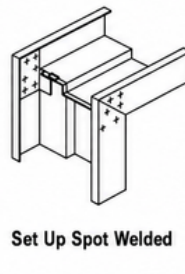
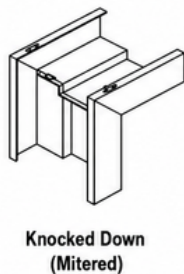
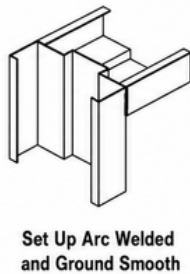
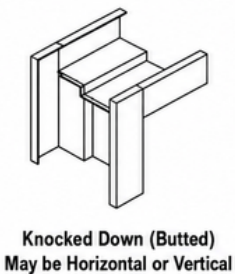
- Single and Double leaf door frames
- Available in different standard frame profiles



Door Frame Profiles



Door Thk.	Dim. "A"
1-3/8" (34.9mm)	1-9/16" (39.6mm)
1-3/4" (44.4mm)	1-15/16" (49.2mm)



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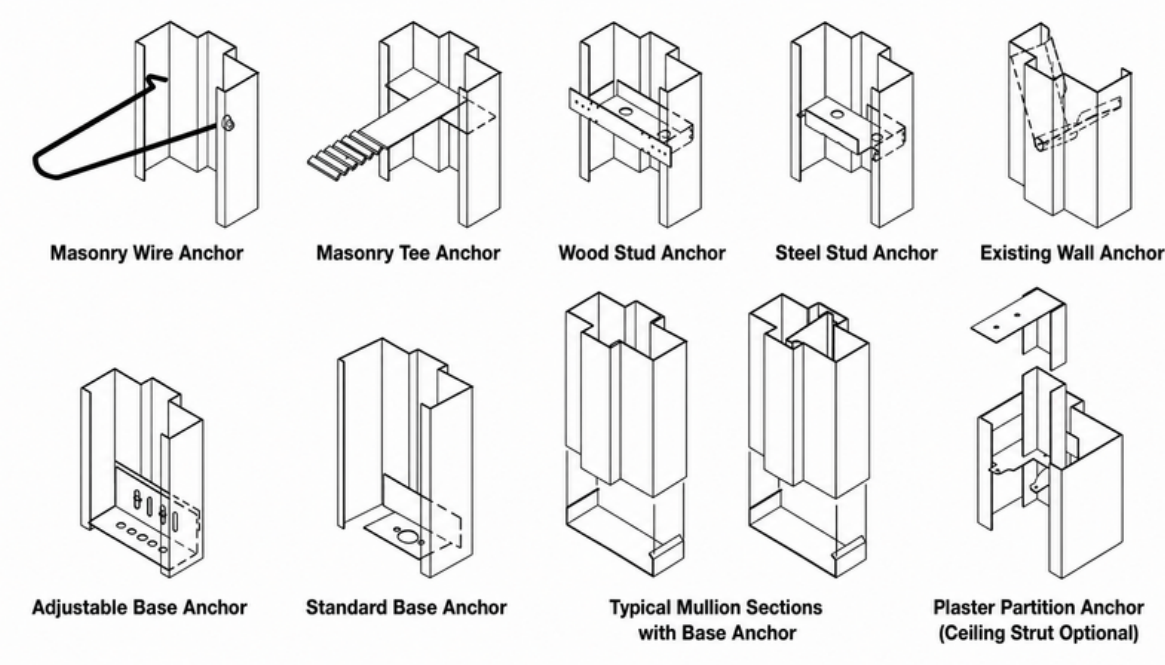
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Fire Doors

Standard Door Frame Details

Standard Anchor Types



Door Handling Chart

DOOR HANDLING CHART			
SINGLE DOORS		PAIRS OF DOORS	
INSIDE RH RIGHT HAND	INSIDE LH LEFT HAND	INSIDE ACTIVE RIGHT HAND	INSIDE ACTIVE LEFT HAND
INSIDE RHR RIGHT HAND REVERSE	INSIDE LHR LEFT HAND REVERSE	INSIDE ACTIVE RIGHT HAND REVERSE	INSIDE ACTIVE LEFT HAND REVERSE

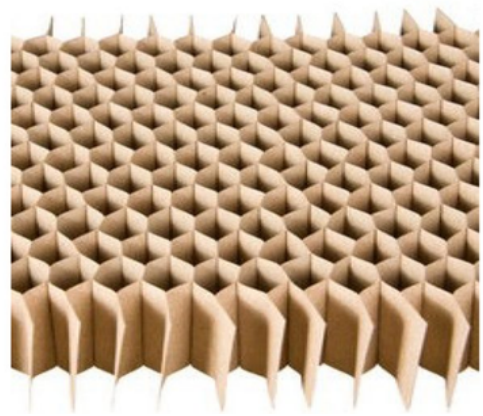


Honeycomb Infill

Paper Honey Comb Core

As door infill, the rigid honeycomb structure is integrated with the door to form hundreds of small I- beams with the door, with a uniform thickness and flat surface that makes it easy to add lites, louvers or other features. It reinforces the full width and height of the door. Honeycomb Core Doors may be used in exterior or interior applications.

- Paper material : high strength corrugated/craft paper in 140g/m2
- Honey Comb Core cell Size : 12 mm side size
- Width : 1250mm before expanding
- Thickness : 41 mm



Advantages

- High strength to weight ratio.
- Uniform crushing strength.
- High shear strength.
- Excellent impact resistance.

Rockwool Infill

Rockwool, as the name implies is made by melting diabase rock mixed with coke and limestone, then converted to fibers. The raw material diabase (basalt rock) is a pure volcanic material which is millions of years old. Rockwool is classified as an inorganic material and has an excellent resistance to high temperatures and possesses superior acoustic properties.

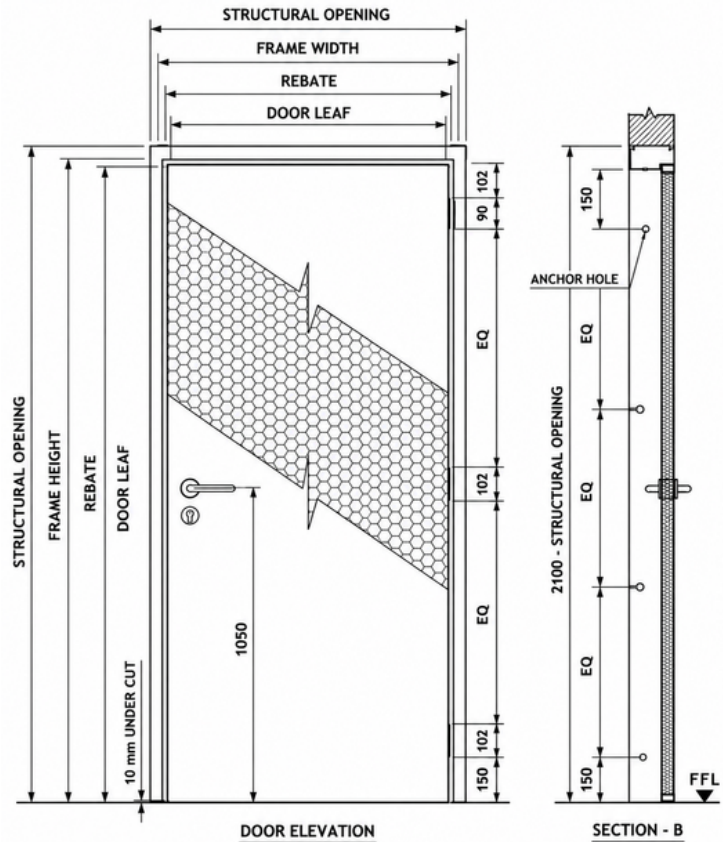


Other important properties are as follow:

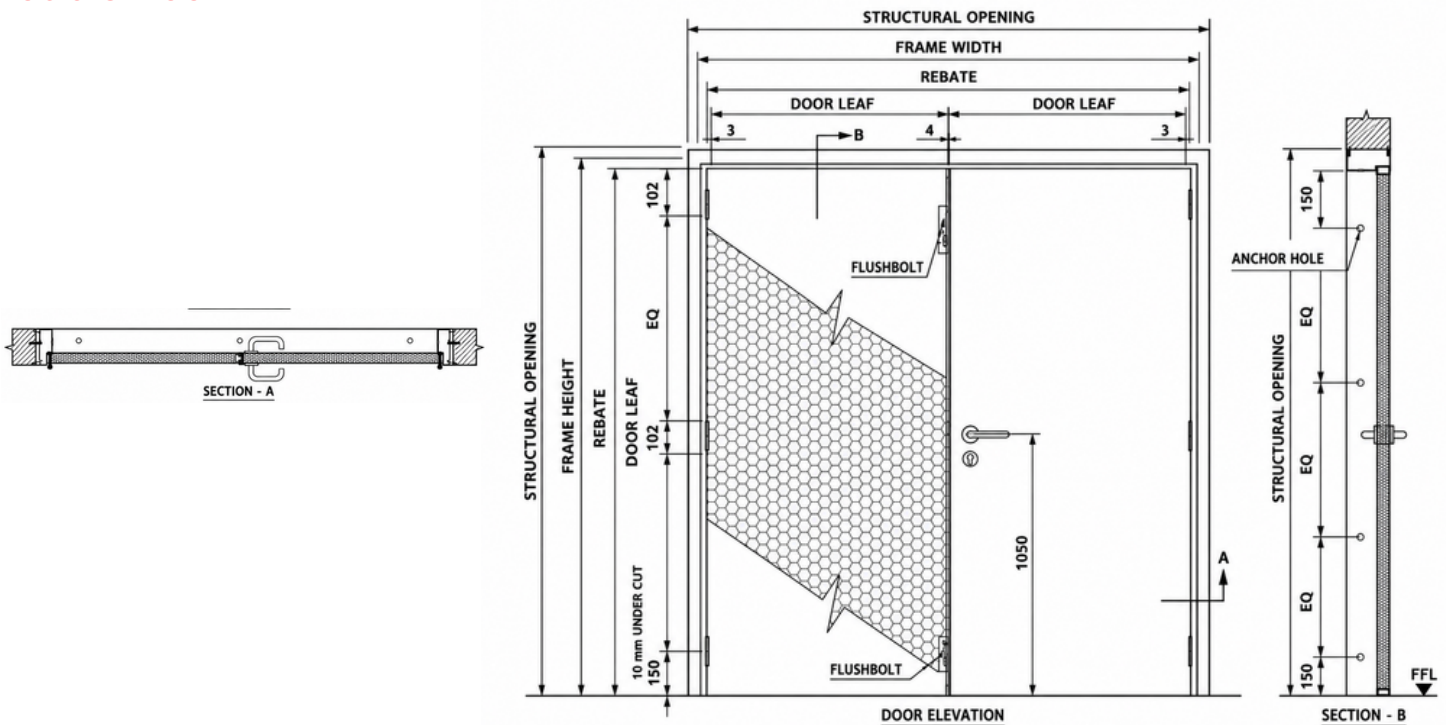
- Water Absorption tested according to BS2972 : Section 12 and ASTM C-209
- Thermal Conductivity in accordance with BS 874, - equivalent ASTM C-177/C 518
- Sound Absorption in accordance with BS 3638 & ISO 354, equivalent ASTM C 423
- Non-combustible in accordance with BS 476: Part 4 1970 and - ASTM E-136, Class A to ASTM E-84



Single Door



Double Door



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