



Protecting Property  
Saving Lives



# ***FIRE*** **RATED** **DOOR**

**C.B.R.I. (Roorkee) Tested**  
As per IS 3614 -2021 / IS 16947: 2018

**Tested & Approved by**



[asesindia.com](http://asesindia.com)

# ABOUT THE COMPANY

ASES has its corporate head office in Ghaziabad, U.P and branch offices in major cities. We have a distinctive niche in manufacturing a wide range of Fire Alarm Systems (Conventional/ Addressable), Fire Rated Doors, Electrical Control Panels, Fire Suppression Systems, and Emergency-Exit-Lights.

ASES's manufacturing is always in progress to the best and we do have two bigger units for production. We aim at manufacturing our products to not only have a beautiful appearance but also that the customers perceive something of great intrinsic value when they use it. We constantly strive to create future products that can prevent economic lows with technological highs.

The future of its manufacturing is that ASES is to play an indispensable role in an Indian supply chain. This would be achieved by having the strength of the three combined effects; meeting the needs of the marketplace, advanced technology, and high quality. Therefore, we will continue to provide the market with reliable quality by making full use of our core technology of forging and investing for the future.

Our success will be validated when the end users use the product and "feel the utmost protection to the wealth". We will create an unlimited future through valued manufacturing. The company has core staff strength at the executive level, sales, research & development, production, quality, technical support and associated departments etc. in complete customer satisfaction in all areas of activities. A complete and integrated network of engineers, management professional's also abundant skills and resources make it easier to cater to all sorts of requirements of our valued customers.

In a significant development, ASES has offices in Ghaziabad (U.P.), Delhi, Kolkata, Mumbai and Bangalore. Our fire rated doors are tested as per BS: 476, Part-20 & 22 CBRI Roorkee.

# FIRE RATED HARDWARE



Fire doors hardware mean all the elements that take place in tests of resistance against fire in doors, such as locks, hinges, door closers, handles, panic bars, etc.

## Approvals



And many more...

## Multipurpose Doors



## Leadline Doors



UL Product iQ®



GWZQ.R40914 - Door Hinges

Door Hinges

R40914

**Ases Security Pvt Ltd**  
A - 2/69, Site IV, Sahibabad  
Industrial Area  
Ghaziabad, Uttar Pradesh 201010 India

**Hinge**, Models ASESHG-2BB403030, ASESHG-2BB403530, ASESHG-2BB404030, ASESHG-2BB454030, ASESHG-2BB454034, ASESHG-2BB454530, ASESHG-2BB454534, ASESHG-2BB503030, ASESHG-2BB503530, ASESHG-2BB504030, ASESHG-2BB403030R, ASESHG-2BB403530R, ASESHG-2BB404030R, ASESHG-2BB454030R, ASESHG-2BB454034R, ASESHG-2BB454530R, ASESHG-2BB454534R, ASESHG-2BB503030R, ASESHG-2BB503530R, ASESHG-2BB504030R for use on swinging-type fire doors, rated. Investigated to ANSI/BHMA A156.1.

Also evaluated in accordance with Standard UL 10C

# Types of Doors

Fire doors are a type of door used to contain a fire in a certain part of a building. They form part of a passive fire protection systems. The walls around fire doors are also often made to be fire-resistant. Fire doors and walls have hourly ratings, which express the time that they are able to stand up to fire in test conditions.



Metal Fire Rated Door



Wooden Fire Door



Glazed Fire Door

## Fire Rated Doors

CBRI Tested Wooden & Steel Fire Doors as per BS :476 Part - 22 & IS : 3614 Part - II, Single /Double Leaf (Hinged or Automatic Sliding) are available in 60/120 minutes fire rating fulfills all the three criteria stability, integrity and insulation.



### 120 Minutes Fire Rated Wooden Fire Doors

#### DOOR FRAME :

Wooden Door Frame made of hard wood/ teak wood of section 140mm x 70mm with heat activated intumescent fire seal strip of section 12mm x 5mm and one coat of Fire & anti-termite primer.

#### DOOR SHUTTER :

55mm thick asbestos free composite Fire / Smoke check wooden shutters of 120 minutes fire resistance rating confirming to BS : 476 Part - 22 & IS : 3614 Part -II comprising of two 12mm thick calcium silicate boards sandwiching 23mm thick Proprietary fire resistance insulation material faced with 4mm commercial ply on both side with heat activated intumescent fire seal strip of size 12mm x 5mm mounted on grooves on three sides except bottom.



### 120 Minutes Fire Rated Metal Door

48 mm thick Metal Fire Door of 60/120 minutes Fire rating confirming to BS : 476 Part-22 and IS : 3614 Part-II Fabricated with 2 nos 18SWG galvanized steel sheet sandwiching with proprietary fire resistant insulation materials in-between. The door frames are manufactured from 16SWG galvanized steel sheet pressed form to double rebate profile of size 143mm x 60mm. The door frame and door shutter are fitted with SS BALL BEARING HINGES' and are coated with one coat of fire and corrosion resistant primer.



### Clean Room Doors



### 120 Minutes Fire Rated SS Door

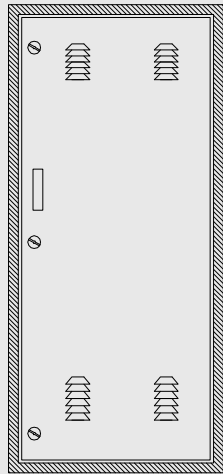
This type of Doors can be of two types

- Door with Wired Glass
- Door with Cleared Glass

The Frame & Glass beading can be of two types

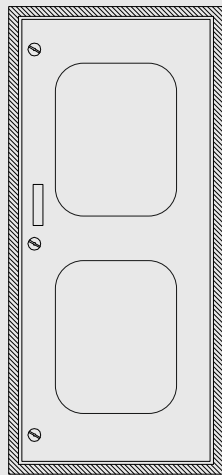
- SS (Confirming 120 min Fire Certificate)
- MS (Confirming 120 min Fire Certificate)

# Shaft Doors



## LV Shaft Door

- Frame & Shutter 1.6 / 1.2 mm thick made of GI / CRCA sheet
- Light Grey / Siemens Grey colour powder coated finish
- 65 micron powder coated thickness
- Locking arrangement is provided
- Chest handel is provided
- Customized design & size available



## Fire Shaft Door/Hose Cabinet

- Frame & Shutter 1.6 / 1.2 mm thick made of GI / CRCA sheet
- Red colour powder coated finish
- 5 mm thick clear glass
- 65 micron powder coated thickness
- Locking arrangement is provided
- Chest handel is provided
- Customized design & size available



## Electrical Shaft Door

- Frame & Shutter 1.6 / 1.2 mm thick made of GI / CRCA sheet
- Light Grey / Siemens Grey colour powder coated finish
- 65 micron powder coated thickness
- Locking arrangement is provided
- Chest handel is provided
- Customized design & size available

**FIRE RESISTANCE TEST REPORT SCHEDULED-1/1**  
**REFERENCE NO. FSE-CSIR-CBRI/1393**

**Disclaimer:** The contents of this report are the privileged and confidential material of CSIR-Central Building Research Institute, Roorkee. Information contained herein is solely intended for use by the client. Technical data provided in the report pertains to the representative sample of client submitted to the Institute and tested. CSIR-CBRI's name or logo cannot be used for commercial purposes. All procedural, legal, and/or operational matters will be the responsibility of the client using this report. Accepting/rejecting the results partly or fully rests with the concerned agencies.

- Name of the Testing Laboratory** : Fire Safety Engineering  
CSIR-Central Building Research Institute, Roorkee-247667, Uttarakhand, India
- Name of the Sponsorer** : M/S ASES Security Pvt. Ltd.,  
A-2/69, Site-IV, Sahibabad Ind. Area,  
Ghaziabad-UP-201 010
- Sample Manufacturer** : M/S ASES Security Pvt. Ltd.,  
A-2/69, Site-IV, Sahibabad Ind. Area,  
Ghaziabad-UP-201 010
- Manufacturer Consent for Fire Test of Sample** : Yes
- Sample Fire Tested for the Project** : Not Applicable
- Type of Test Sample** : Door
- Surface of Test Sample** : Uncoated
- Symmetry of Sample** : Symmetrical
- Details of Sample** : Double leaf single swing metal fire door with vision panels
- Dimension of Sample** :
 

Size	Door Frame	Door Panel
Height : 2400 mm	: 2200 mm	
Width : 2355 mm	: 2120 mm	
Thickness : 100 mm	: 48 mm	
- Sample in-fill materials** : Rockwool of density 96 kg/m<sup>3</sup> in door panel and 3 mm thick ceramic gasket and cement mortar in door frame.
- Sample Vision Panel** : Two Nos. : 300 mm (H) x 200 mm (W) x 6 mm (Make- Schott Pyran S)

*Dr. Harpal Singh*  
26/06/2024  
Chief Scientist & Head

अग्नि अनुसंधान प्रयोगशाला  
**FIRE RESEARCH LABORATORY**  
सी.एस.आई.आर.-केन्द्रीय भवन अनुसंधान संस्थान  
**CSIR - Central Building Research Institute**  
रूड़की - 247 667 (उत्तराखण्ड) भारत / Roorkee - 247 667 (U.K.) INDIA  
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**FIRE RESISTANCE TEST REPORT SCHEDULED-1/1**  
**REFERENCE NO. FSE-CSIR-CBRI/0194**

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- Sample Manufacturer** : M/S ASES Security Pvt. Ltd.,  
A-2/69, Site-IV, Sahibabad Ind. Area,  
Ghaziabad-UP-201 010
- Manufacturer Consent for Fire Test of Sample** : Yes
- Sample Fire Tested for the Project** : Not Applicable
- Type of Test Sample** : Door
- Surface of Test Sample** : Uncoated
- Symmetry of Sample** : Symmetrical
- Details of Sample** : Double leaf glazed door with G.I. frame
- Dimension of Sample** :
 

Size	Door Frame	Clear Glazed View
Height : 2400 mm	: 2130 mm	
Width : 2200 mm	: 900 mm (02 Nos.)	
Thickness : 60 mm	: 14 mm	
- Sample in-fill materials** : Rockwool-96kg/m<sup>3</sup>-inside the door frame
- Sample Vision Panel** : Not applicable

*Dr. Harpal Singh*  
11/09/2024  
Chief Scientist & Head  
Fire Engineering  
CSIR-CBRI, Roorkee-247667

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**भारतीय मानक ब्यूरो**  
**BUREAU OF INDIAN STANDARDS**  
Under Ministry of Consumer Affairs, Food & Public Distribution, G.O.I.  
नोएडा शाखा कार्यालय / NOIDA BRANCH OFFICE  
राष्ट्रीय मानकीकरण प्रशिक्षण संस्थान (परिसर)  
ए-20/21, संस्थागत क्षेत्र, सेक्टर-62, नोएडा-201309 (उ.प्र.)  
National Institute of Training for Standardization (Campus)  
A-20/21, Institutional Area, Sector-62, Noida-201 309 (U.P.)

Our Ref : NOBO/CML- 8800151113 Dated 30.8.2024

**Subject: Grant of BIS Certification Marks Licence No 8800151113 as per IS 3614:2021.**

M/s ASES SECURITY PRIVATE LIMITED  
PLOT No 52, TOY CITY ECOTECH III,  
GREATER NOIDA, GAUTAM BUDDHA NAGAR,  
UTTAR PRADESH-201308

Dear Madams/Sir,

With reference to your application, we are pleased to inform you that the Certification Marks Licence has been granted to you to use the Standard Mark in respect of the followings:

**Product:- Specification of Fire Doors and Assembly First Revision of IS 3614 Parts 1 2**  
**Grade/Class/Type/Variety**

Type of Fire Door-Fire Rated Hinged Metallic Door, Fire Rating-FD 120 PI, Insulation Type-Partially Insulated, Latch Condition-Latched, Door Way Opening Size-Width up to and including 2400 mm, Length up to and including 2400 mm, Material Thickness- 1.2 mm minimum, Infill Material-Mineral Wool, Door Leaf Configuration-Double leaf, Vision Pane With/Without, Area Of Vision Pane- maximum up to 0.06 m<sup>2</sup>.

- The licence is granted on the explicit condition that you will mark entire/substantial production which conforms to the Indian Standards.
- The number assigned to this licence is **CM/L- 8800151113** which has been made operative from **2024-08-02** and is valid up to **2025-08-01**. The licence number should invariably be referred to in your future correspondence.

According to sub-regulation (1) & (3) of Paragraph 5 of scheme I of Schedule II under Bureau of Indian Standards (Conformity of Assessment) Regulation, 2018, the annual licence fee of Rs. 1000.00 and the marking fee for use of standard mark as per Annexure-I of Scheme I of BIS (Conformity assessment) Regulation 2018 is payable by you with effect from **2024-08-02** for the period of validity of the licence in advance.

- Minimum marking fee stipulated in Annexure -I of scheme I of BIS (Conformity Assessment) Regulation 2018 is payable by you regardless of the whether you actually mark your product or not with the Standard Mark. **Our Receipt No. AA87PC2024000186** dated **2024-05-02** for the licence fee and the minimum marking fee for the first operative period is already issued.

मुख्यालय: मानक भवन, 9 बहादुरशाह जफर मार्ग, नई दिल्ली-110002  
H.O. :-Manak Bhawan, 9 Bhadurshah Zafar Marg, New Delhi-110002



**ASES Metal Fire Door in CBRI Roorkee**



**ASES Glazed Fire Door in CBRI Roorkee**

## Legal Requirements

The use of FIRE DOORS is mandatory as per Delhi Fire Safety Act 1986 and National Building Code Part-IV. To maintain “Compartmentation” which is an Important fire safety requirement as per safety Regulations for all high rise buildings, Hospitals, Hotels and Industrial establishments.

## Governing Specifications

BS : 476 Part 20 & 22	Fire Test on Buildings Material Structures.
ISO : 834	Fire Resistance Test Elements of Building Construction.
ISO : 3008	Fire Resistance Test on Doors and Shutters.
IS : 3809	Fire Resistance Test on Structures.
IS : 3614, Part II	Metallic and Non Metallic Fire Check Doors, Resistance Test and Performance Criteria

## Fire Doors' Requirement - NBC of India 2016

- 2.37 Fire Exit Hardware - A door-latching assembly incorporating an actuating member or panic bar that releases the latch bolt upon the application of a force in the direction of egress travel, provided on exits.
- 3.4.5.2 For Types 1 to 3 constructions. Every wall opening shall be protected with fire-resisting doors, having the fire rating of not less than 120 min.
- 3.4.5.3 For Type 4 construction, openings in the fire separating walls or floors shall be fitted with 120 min fire-resistance rated assemblies.
- 4.4.2.4.1 Doorways
- a) All fire rated doors and assembly shall be provided with certificate and labels prominently indicating the manufacturer's identification, door details covering door type, serial/batch number, month and year of manufacture, fire resistance rating, etc. The doors and assembly shall be certified with all prescribed hardware such as hinges, locks, panic bars, door closer and door viewers.
- b) No exit door way shall be less than 1000mm in width except assembly buildings, where door width shall be not less than 2000 mm (see Fig. 8) Doorways shall be not less than 2000 mm in height.
- 4.4.2.4.3.2 Internal Staircases
- a) The minimum headroom in a passage under the landing of a staircase and under the staircase shall be 2.2 m.
- b) Access to exit staircase shall be through a fire door of a minimum 120 min fire resistance rating.
- 4.2.19 Basement
- a) Where basement is used for car parking and also there is direct approach from any occupancy above to the basement, door openings leading to the basement shall need to be protected with the doors with 120 min fire rating, except for exit discharge doors from the basements.
- 3.4.6.3.2 Dry type substation - Transformers located inside a building shall be of dry type and all substation/switch room walls, ceiling, floor, opening including doors shall have a fire resistance rating of 120 min.
- 4.2.11 Unless otherwise specified, all the exits and exit passageways to exit discharge shall have a clear ceiling height of at least 2.4 m. However, the height of exit door shall be at least 2.0 m (see Fig.5).
- 3.4.6.3 Substation/Transformers - The MV panel room shall be provided with fire resistant walls and doors of fire resistance of not less than 120 min.
- 3.4.5.4 Service ducts and shafts - Openings in walls or floors which are necessary to be provided to allow passages of all building services like cables, electrical wirings, telephone cables, plumbing pipes, etc, shall be protected by enclosure in the form of ducts/shafts having a fire resistance not less than 120 min. The inspection door for electrical shafts/ducts shall be not less than 120 min.
- For plumbing shafts in the core of the building, with shaft door opening inside the building, the shaft shall have inspection doors having fire resistance rating not less than 30 min.



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