TATA STEEL

WeAlsoMakeTomorrow

TATA PRAVESH



FIRE RATED DOORS





Version No. Pravesh/December/FR/2023

UNIQUE SOLUTIONS FOR WIDE RANGE OF APPLICATIONS


INDUSTRIAL


COMMERCIAL


MEDICAL


EDUCATION


HOSPITALITY


CORPORATE


RELIGIOUS


GOVERNMENT

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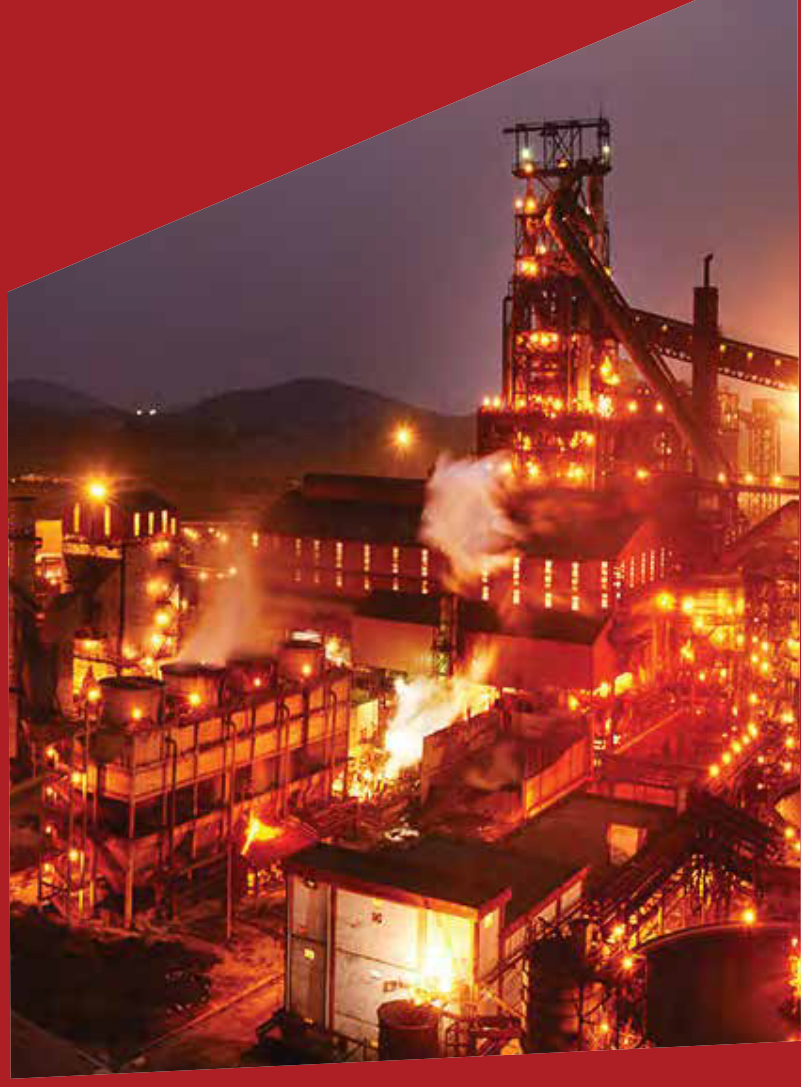
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TATA STEEL

WeAlsoMakeTomorrow

Tata Steel was established in India as Asia's first integrated private steel company in 1907. With this, we also developed India's first industrial city at Jamshedpur. Today, we are among the leading global steel companies. We possess and operate captive mines that help us maintain cost-competitiveness and production efficiencies through an uninterrupted supply of raw material. This is how we ensure that we remain the lowest cost producer of steel in Asia.





TATA PRAVESH

Tata Steel's history of offering innovative solutions at affordable prices now has a new chapter with the introduction of 'Pravesh Doors'. Our doors are manufactured from state of the art technology to ensure supreme resistance to fire. Factory-Engineered to perfection, every product is uniform in quality and finish. Our Manufacturing facilities are ISO 9001:2015 certified & equipped with advanced high-tech computerized numerically computerized equipment.

Passive Fire Protection in
Your Building and Its Importance

Buildings need to be designed to offer an acceptable level of fire safety and minimize the risk and damage of fire. The primary objective of fire protection components is protect the life and property within your building. Most people are familiar with the basics of fire suppression sprinklers, fire extinguishers, etc., which are part of Active Fire protection components.

But the passive fire protection that actually contains a fire at its point of origin or prevents the spread of fire, can be invisible and nearly forgotten - until the day you come to truly appreciate and depend on it. Passive fire protection is not only a necessary safety precaution but is also required by law, as it is designed to provide an effective system built into the structure of a building which restricts the growth and spread of fire.

Fire doors remain one of the important passive fire protection components of your building. They serve four main purposes:

- Suppress the spread of fire
- Reduce smoke hazards by containing smoke
- Provide ready egress from fire
- Serve as regular doors with access control in some cases

A FEW NOTABLE FIRE INCIDENTS IN INDIA

16th Feb, 2020: The Park Hotel, Delhi, 14 hospitalised



The fire broke out at around 9 am in the basement of The Park Hotel, opposite Jantar Mantar.

Reports suggest, the fire was caused by short-circuit in the hotel causing major panic.

14 people were hospitalized after they complained of breathlessness caused by the smoke.





13th Feb 2020: Arpit Palace, Karol Bagh, claimed 17 lives

The fire broke out between 3-3:30 am, on the first floor and spread to the upper floors of the hotel.

The FIR suggests that the call to the police control room was received at 4:43 am on Tuesday. The fire quickly spread due to wooden panels on the walls and floor of the hotel and caused heavy smoke in the hallways.

At least 30 people were rescued by fire fighters but 17 succumbed to burns and asphyxiation.

A FEW NOTABLE FIRE INCIDENTS IN INDIA

24th May, 2019:
Takshashila Archade, Surat, 22 students killed

A massive fire irrupted at the Takshashila Arcade at around 3:30 pm.
Reports suggest that the multi-storied building was an illegal construction that had no fire escape or proper safety equipment. An electrical short-circuit in air-conditioner started the fire which quickly spread engulfing the third floor and the make shift dome on the terrace of the building.

The fire brigade arrived with 19 engines and hydraulic platform. They doused the fire in an hour rescued several students, however a total of 22 students died.





A FEW NOTABLE FIRE INCIDENTS IN INDIA

9th Dec, 2011:
AMRI Hospital, Kolkata, 90 people killed

The massive fire spread fast from the basement of the hospital, engulfing one ward after the other and trapped hundreds of people. While several patients died of burns, most died due to suffocation caused by carbon monoxide accumulation all over the building. Since the hospital building was surrounded by a glass façade, the accumulated glass could not escape, said the experts.

At least 90 people were killed in the fire that ravaged the hospital around 3 am on 9th Dec, 2011.





CHECKLIST FOR FIRE DOORS

Ensure Fire rated Door closer

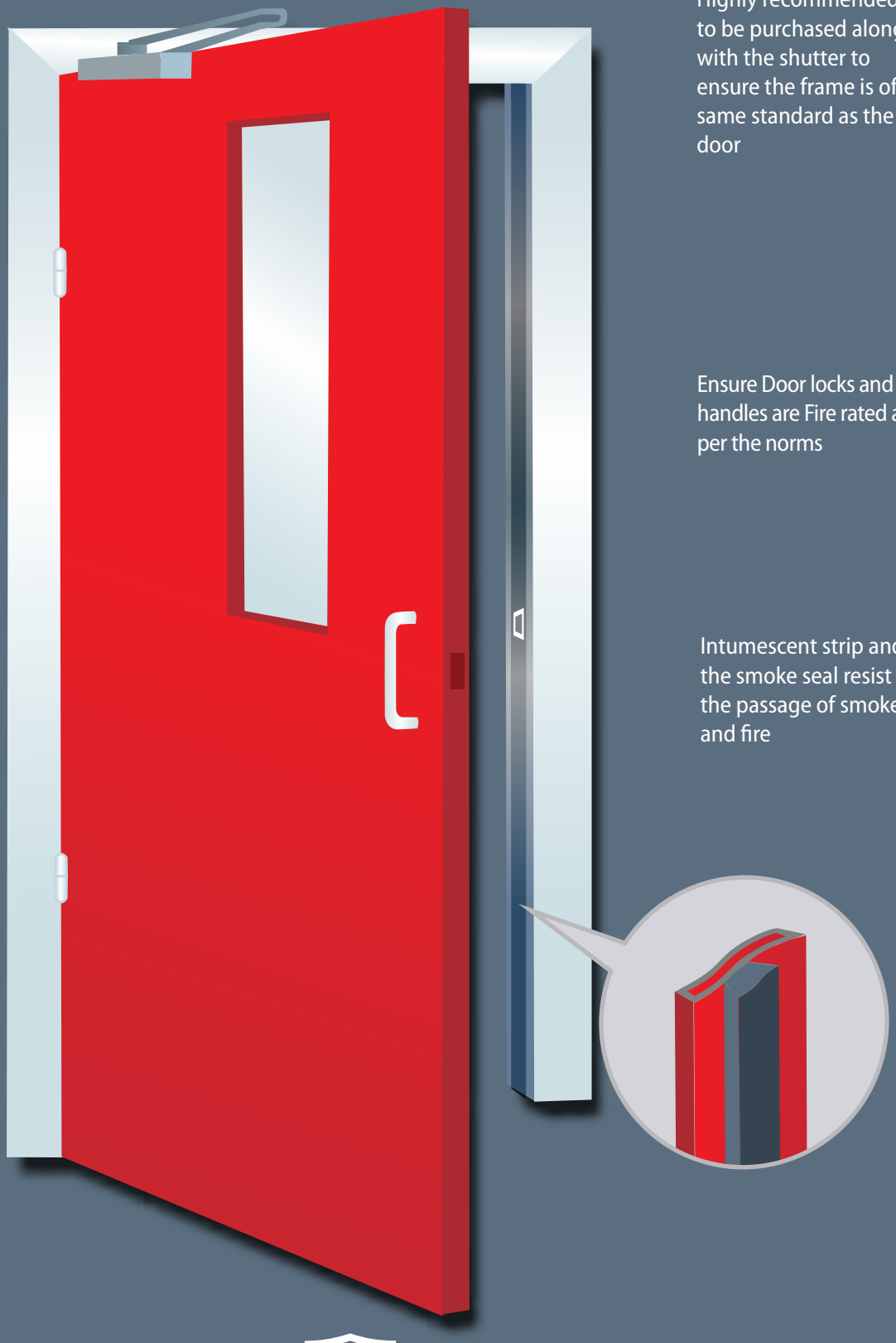
Highly recommended to be purchased along with the shutter to ensure the frame is of same standard as the door

Ensure Hinges are fire rating tested along with the door set

Ensure Door locks and handles are Fire rated as per the norms

Ensure Vision Panel is Fire rated

Intumescent strip and the smoke seal resist the passage of smoke and fire



FIRE DOORS

These doors can be used in high-rise building, metro railways station, telecom centres, power plants, cellular network stations, garment processing units, shopping malls, industrial plants, multiplexes, hotels, auditoriums, software parks, restaurants etc. These doors and frames are designed to perform in the most demanding environment.



Fire rated doors are tested as per BS 476 Part 20 & 22

Doors are tested at:

- CBRI (Central Building Research Institute)
- Spectro

SHAFT/DUCT ACCESS DOORS



FIRE RATED DOORS



STANDARDS & CERTIFICATIONS:

- Fire doors are tested as per BS 476 Part 20 & 22
- Doors are tested at:
  - Spectro
  - CBRI (Central Building Research Institute)

TATA PRAVESH

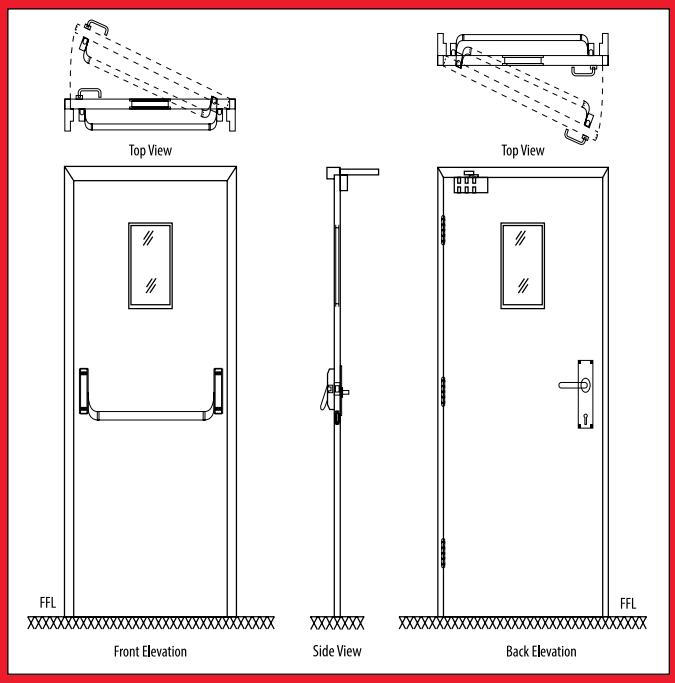
FEATURES OF FIRE DOORS:

- Available in galvanised or stainless steel
- Honeycomb/Rockwool/Mineral wool core in-fill for structurally flat surface
- Shutter thickness of 0.046m
- Fire rating of 120 minutes for stability and integrity (IS/BS)
- UL labelled doors for 90 minutes
- Clear vision lite up to 120 minutes fire rating
- No welding joints and sharp edges, interlocking at the stiles
- Factory prepped to receive all Mortise hardware specified
- High aesthetics and robust structure
- Fully flush constructions
- Easy flush constructions
- Easy to install on a flush wall opening and dry wall partitions
- Can be supplied in a wide range of colours

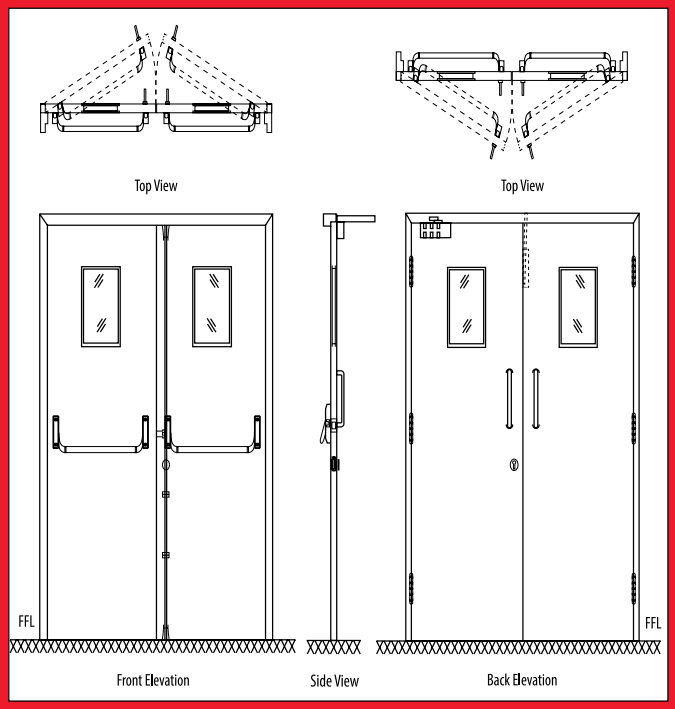
OPTIONAL FEATURES:

- Insulated doors with 120 minutes of rating (BS)
- Wood grain can be provided as an optional finish
- Fire doors are tested as per BS 476 part 20 and 22
- Double doors and doors with vision lite are tested for both 60 and 120 minutes
- Doors are tested at CRBI (Central Building Research Institute)

Single Leaf Fire rated Door with Single Point Locking Panic Bar & External Trim



Equal Double Leaf Fire rated Door with Point Locking Panic Bar & 'D' Handle



WARRANTY

All products carry

1 year warranty *on manufacturing*

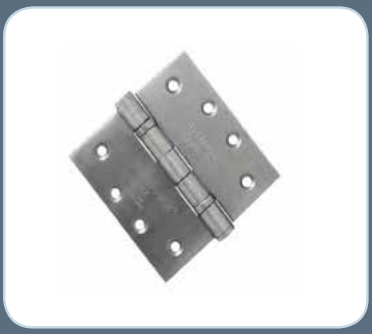
1 year warranty *on powder coating*

TECHNICAL SPECIFICATIONS

ITEM	TYPES OF DOORS
	Fire Rated Doors (2 Hours)
Door Leaves	Constructed from 1.2mm (18 SWG) thick Skin pass Galvanized Iron sheet (Conform to IS 277) or from 0.8mm (22 SWG) thick Skin pass Galvanized Iron Sheet (Conform to IS 277)
Thickness	46mm
In-Fill	Rockwool/Mineral Wool/ Honeycomb Kraft Paper
Door Frames	Constructed from 1.6mm (12 SWG) thick Skin pass galvanized Iron sheet (Confirm to IS 277) or from 1.2mm (18 SWG) thick Skin pass Galvanized Iron sheet (Confirm to IS 277) formed to single or double rebate profile of size
Profile Dimension	0.143m X 0.058m (+/-0.03m)
Bending Radius	0.0014m
	Vision Glass
Material	5mm thick clear/wired glass Circular or Rectangular
Rectangular Dimension	0.2m X 0.3m
Coating	The door frames and door shutter are primed with Zinc-Phosphate Stoving Primer and finished with Polyurethane Aliphatic grade of epoxy paint as required
Powder Coating Material	Epoxy Polyester / Pure Polyester / Polyurethane
Powder Coating Thickness	60-65 Microns (Dry film Thickness)
	Accessories
Hinges	Material - Stainless Steel Ball Bearing Butt Hinges, Dimensions - 0.102m X 0.076m, Thickness - 3mm
Lock	Mortise Sash Lock with Lever Handles, Mortise Dead Bolt, Mortise Latch, Panic Devices etc. can be provided as required
Flush Bolts (Double Doors)	Concealed extended lever action flush bolts provided on the top of the door to the leading stile edges
Door Closers	Doors are made suitable to receive a large variety of door closers

ACCESSORIES FOR YOUR PRAVESH DOOR

At PRAVESH we use only the best-in-quality hardware and accessories to give the products a long and damage-free life.



Hinges

Make-Geze/Hettich/Dorma/ Kich



Panic Bar

Make-Geze/Hettich/Dorma



D-Handle

Make-Geze/Hettich/Dorma/ Kich



Main Door Lock

Make-Geze/Hettich/Dorset/ Kich



Door Closer

Make-Dorset/Geze/Hettich/ Dorma/Assa Abloy/Kich



Mortise Dead Lock

Make-Geze/Hettich/Dorma/ Kich

INSTALLATION OF PRAVESH DOORS

INSTALLATION TEAMS



EXPERIENCED CARPENTERS

Who are skilled and are familiar with the usage of Drilling machins, Cutter etc.

EXPERIENCED DOOR SHUTTER AND FRAME INSTALLERS

(For Doors & Windows)





EXPERIENCED IRON FRAME INSTALLERS

(For Doors & Windows)

- Trained and Experienced Installers
- Installed with modern tools and techniques
- Skill India certified installers



FAQs
ON FIRE DOORS

What is infill of shutter in case of fire rated doors?	Both Rockwool and Honeycomb can be provided.
What kind of fire seal we put in our doors?	We use Lorient, Pemko, NGP, Dorma Fire Seal.
What is a stiffener and what is use of same?	Stiffeners are made of steel and used inside the door for the hardware functioning
What is a trim and where is it used?	Trim is a handle/lock used with panic bar
Does panic bar installation involves extra cost?	Yes, Rs.500
Till what temperature our fire resistant doors are tested?	850 degree
How is a shaft door different from a fire rated door?	Shaft doors are used for entry to the restricted places with electrical ducts, fire equipment etc. typically smaller than normal door. It can be fire rated as well as non fire rated
What is single panel shaft door, how is it different from double panel?	Only one steel sheet is used
What is maximum height and width possible for single leaf FRD?	Height – 2.35m width – 1.2m
Are all FRD double rebate, why?	Height -2.35m width – 2.4m
Are all FRD double rebate, why?	Yes because with double rebate, higher stability can be achieved.
What are criteria for which we have been given fire rating on our doors for 1 hour / 2 hours?	As per CBRI Testing
Can we give fire rating of 1 hour / 2 hours on insulation?	We can give 2 hours insulation
How much fire rating a rockwool of honeycomb provides on installation?	2 hours as per the CBRI testing condition
Is fire rating possible with vision glass on 0.8*1.2 configuration as well?	Yes, as we provide Fire rated Vision glass also doors are tested with these specs
Can we provided fire or commercial doors with access control mechanism?	Yes, we can provide access control mechanism
What are various types of fire rated glass available?	We provide Schott Pyran fire rated glass
Silicon gel that we use is fire rated?	Yes, Silicon Sealant is fire rated
How does in-fill affect fire rating?	Rockwool can withhold fire for more time than Honeycomb. More efficient in blocking the transfer of heat
What is difference between 3 point locking system and single point locking system?	It has 3 lock operating points controlled by a central mechanism as compared to single point lock
What is active door and what is inactive door?	The leaf which is fixed by flush bolt is called inactive door and the other one is called active door, which is operated
How many number of hinges are put in a FRD and is it related to height?	Depending on the height 3 to 4 hinges may be used
How much warranty do we provide on FRD?	1 year
What are various certifications that we have for fire rating?	CBRI

A GLIMPSE OF PROJECTS EXECUTED BY PRAVESH





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www.tatapravesh.com

Join us on tatapravesh

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