UNIQUE SOLUTIONS FOR WIDE RANGE OF APPLICATIONS

COMMERCIAL

INDUSTRIAL

EDUCATION

MEDICAL

HOSPITALITY

CORPORATE

RELIGIOUS

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

A massive fire erupted 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 one 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 Hinges are fire rating tested along with the door set.

Ensure Vision Panel is Fire rated.

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

Intumescent strip and the smoke seal resist the passage of smoke and fire.
Fire rated doors are tested as per IS 3614 Part 2 and BS 476 Part 20 & 22

Doors are tested at:
- NTL (National Testing Institute)
- CBRI (Central Building Research Institute)
- ARAI (Automotive Research Association of India)

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.
STANDARDS & CERTIFICATIONS:

- All our doors are tested under IS 4020 Part 1 - 12 & 16
- Fire doors are tested as per IS 3614 Part 2 & BS 476 Part 20 & 22
- Tested to UL10C and confirming to NFPA 80
- Doors are tested at:
  - NTL (National Testing Laboratory)
  - CBRI (Central Building Research Institute)
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
- Tested to UL10C and confirming to NFPA 80
- Fire doors are tested as per IS 3614 Part 2 and 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) and ARAI (Automotive Research Association of India. A research institution of the automotive industry with the Ministry of Heavy Industries and Public Enterprises, Government of India)

WARRANTY
All products carry

5 years warranty on manufacturing
5 years warranty on powder coating
<table>
<thead>
<tr>
<th>ITEM</th>
<th>TYPES OF DOORS</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Door Leaves</strong></td>
<td><strong>Fire Rated Doors (2 Hours)</strong></td>
</tr>
<tr>
<td>Thickness</td>
<td>46mm</td>
</tr>
<tr>
<td>In-Fill</td>
<td>Rockwool/Mineral Wool/ Honeycomb Kraft Paper</td>
</tr>
<tr>
<td><strong>Door Frames</strong></td>
<td><strong>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)</strong></td>
</tr>
<tr>
<td>Profile</td>
<td>0.143m X 0.058m (+/-0.03m)</td>
</tr>
<tr>
<td>Dimension</td>
<td>0.143m X 0.058m (+/-0.03m)</td>
</tr>
<tr>
<td>Bending Radius</td>
<td>0.0014m</td>
</tr>
<tr>
<td><strong>Vision Glass</strong></td>
<td><strong>5mm thick clear/wired glass Circular or Rectangular</strong></td>
</tr>
<tr>
<td>Rectangular Dimension</td>
<td>0.2m X 0.3m</td>
</tr>
<tr>
<td>Coating</td>
<td>The door frames and door shutter are primed with Zinc-Phosphate Stoving Primer and finished with Polyurethane Aliphatic grade of epoxy paint as required</td>
</tr>
<tr>
<td>Powder Coating Material</td>
<td>Epoxy Polyester / Pure Polyester / Polyurethane</td>
</tr>
<tr>
<td>Powder Coating Thickness</td>
<td>60-65 Microns (Dry film Thickness)</td>
</tr>
<tr>
<td><strong>Accessories</strong></td>
<td></td>
</tr>
<tr>
<td>Hinges</td>
<td>Material - Stainless Steel Ball Bearing Butt Hinges, Dimensions - 0.102m X 0.076m, Thickness - 3mm</td>
</tr>
<tr>
<td>Lock</td>
<td>Mortise Sash Lock with Lever Handles, Mortise Dead Bolt, Mortise Latch, Panic Devices etc. can be provided as required</td>
</tr>
<tr>
<td>Flush Bolts</td>
<td>Concealed extended lever action flush bolts provided on the top of the door to the leading stile edges</td>
</tr>
<tr>
<td>(Double Doors)</td>
<td></td>
</tr>
<tr>
<td>Door Closers</td>
<td>Doors are made suitable to receive a large variety of door closers</td>
</tr>
</tbody>
</table>
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 machines, 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
<table>
<thead>
<tr>
<th>Question</th>
<th>Answer</th>
</tr>
</thead>
<tbody>
<tr>
<td>What is infill of shutter in case of fire rated doors?</td>
<td>Both Rockwool and Honeycomb can be provided.</td>
</tr>
<tr>
<td>What kind of fire seal we put in our doors?</td>
<td>We use Lorient, Pemko, NGP, Dorma Fire Seal.</td>
</tr>
<tr>
<td>What is a stiffener and what is use of same?</td>
<td>Stiffeners are made of steel and used inside the door for the hardware functioning</td>
</tr>
<tr>
<td>What is a trim and where is it used?</td>
<td>Trim is a handle/lock used with panic bar</td>
</tr>
<tr>
<td>Does panic bar installation involves extra cost?</td>
<td>Yes, Rs.500</td>
</tr>
<tr>
<td>Till what temperature our fire resistant doors are tested?</td>
<td>850 degree</td>
</tr>
<tr>
<td>How is a shaft door different from a fire rated door?</td>
<td>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</td>
</tr>
<tr>
<td>What is single panel shaft door, how is it different from double panel?</td>
<td>Only one steel sheet is used</td>
</tr>
<tr>
<td>What is maximum height and width possible for single leaf FRD?</td>
<td>Height – 2.35m width – 1.2m</td>
</tr>
<tr>
<td>Are all FRD double rebate, why?</td>
<td>Height -2.35m width – 2.4m</td>
</tr>
<tr>
<td>Are all FRD double rebate, why?</td>
<td>Yes because with double rebate, higher stability can be achieved.</td>
</tr>
<tr>
<td>What are criteria for which we have been given fire rating on our doors for 1 hour / 2 hours?</td>
<td>As per CBRI Testing</td>
</tr>
<tr>
<td>Can we give fire rating of 1 hour / 2 hours on insulation?</td>
<td>We can give 2 hours insulation</td>
</tr>
<tr>
<td>How much fire rating a rockwool of honeycomb provides on installation?</td>
<td>2 hours as per the CBRI testing condition</td>
</tr>
<tr>
<td>Is fire rating possible with vision glass on 0.8*1.2 configuration as well?</td>
<td>Yes, as we provide Fire rated Vision glass also doors are tested with these specs</td>
</tr>
<tr>
<td>Can we provided fire or commercial doors with access control mechanism?</td>
<td>Yes, we can provide access control mechanism</td>
</tr>
<tr>
<td>What are various types of fire rated glass available?</td>
<td>We provide Schott Pyran fire rated glass</td>
</tr>
<tr>
<td>Silicon gel that we use is fire rated?</td>
<td>Yes, Silicon Sealant is fire rated</td>
</tr>
<tr>
<td>How does in-fill affect fire rating?</td>
<td>Rockwool can withhold fire for more time than Honeycomb. More efficient in blocking the transfer of heat</td>
</tr>
<tr>
<td>What is difference between 3 point locking system and single point locking system?</td>
<td>It has 3 lock operating points controlled by a central mechanism as compared to single point lock</td>
</tr>
<tr>
<td>What is active door and what is inactive door?</td>
<td>The leaf which is fixed by flush bolt is called inactive door and the other one is called active door, which is operated</td>
</tr>
<tr>
<td>How many number of hinges are put in a FRD and is it related to height?</td>
<td>Depending on the height 3 to 4 hinges may be used</td>
</tr>
<tr>
<td>How much warranty do we provide on FRD?</td>
<td>5 years</td>
</tr>
<tr>
<td>What are various certifications that we have for fire rating?</td>
<td>CBRI, UL, ARAI</td>
</tr>
</tbody>
</table>
A GLIMPSE OF PROJECTS EXECUTED BY PRAVESHER

NCR
- Tata Brookfield Project
- Unity Group
- Gaur Group
- JSG Innotech Pvt Limited Factory (Kundali)
- O.P. Jindal University (Sonipat)
- Tata Reality and Infrastructure Limited (Gurgaon)

JAIPUR
- Suncity Group

INDORE
- C21 mall

KOLKATA
- Mani Group
- PS Group
- Salarupria
- The 42

SHILLONG
- BDW International School

MUMBAI
- Loma IT Park
- Vibrant Group
- Runwal Group
- Goshar Group

BHUBANESWAR
- Sparsh Hospital

HYDERABAD
- Patel Reality

BANGALORE
- Shobha Global Mall
- KMV Projects
- Bren

KERALA
- Rajgiri Hospital
- Synthite Group from Ernakulam