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TATA STEEL



WORLD OF TATA STEEL



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. Our annual crude steel capacity across Indian operations is nearly 13 MnTPA and we registered a turnover of US \$7889 Mn in FY 2017. We also set up our second greenfield steel plant in the eastern state of Odisha; commissioning the first phase (3 MnTPA) of 6 MnTPA capacity in 2016. 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.

PRAVESH DOORS OF INDIA



PRAVESH
DOORS OF INDIA



Tata Steel's history of offering innovative product solutions at affordable prices now has a new chapter with the introduction of 'Pravesh Doors' – steel doors with the elegance of wood. This latest addition to the company's brand portfolio is yet another endeavour to provide value added steel solutions to institutional developers and individual house builders covering all markets – urban, semi-urban and rural.

Combining the strength of steel and the beauty of wood, Pravesh Doors offer complete peace of mind to its users in terms of price, quality, durability and security. The doors are manufactured from high grade steel using state-of-the-art technology to ensure supreme resistance to fire and other hazards commonly experienced in the case of wooden doors such as termite infestation, warping etc. Factory-engineered to perfection, every product is uniform in quality and finish; the texture resembles that of real wood. Easy and quick installation process further adds to the popularity of Pravesh Doors. It offers complete happiness to consumers.

Tata Steel reaches out to its end customers with this branded finished product through a well-established network of dealers and distributors.

Apart from Wood finish Steel door, we also offer a very large gamut of other products including Plain Steel Doors with different colour shades, Fire rated doors, Shaft doors, Windows etc. as per the requirement of our clients.

Our manufacturing facilities are located in Hyderabad, Telangana, Chandigarh, Baddi and Mumbai. These include manufacturing, warehousing & testing facilities. These facilities are ISO 9001:2008 certified & equipped with advanced, high-tech computerized numerically controlled manufacturing equipment. The state-of-the-art machinery helps us produce top-notch products.

PRODUCT PORTFOLIO

Wood Finish Doors

- Embossed Wood Finish
- Plain Wood Finish
- Flymesh Door

Steel Doors

- Scientific Door
- General Door
- Stainless Steel Door
- Secure Door
- Acoustic Door
- Duct/Shaft/Access Door
- Sliding Door
- Swing Door
- Lead Lined Door
- Door Frames

Windows

- Aluminium Windows
- Steel Windows



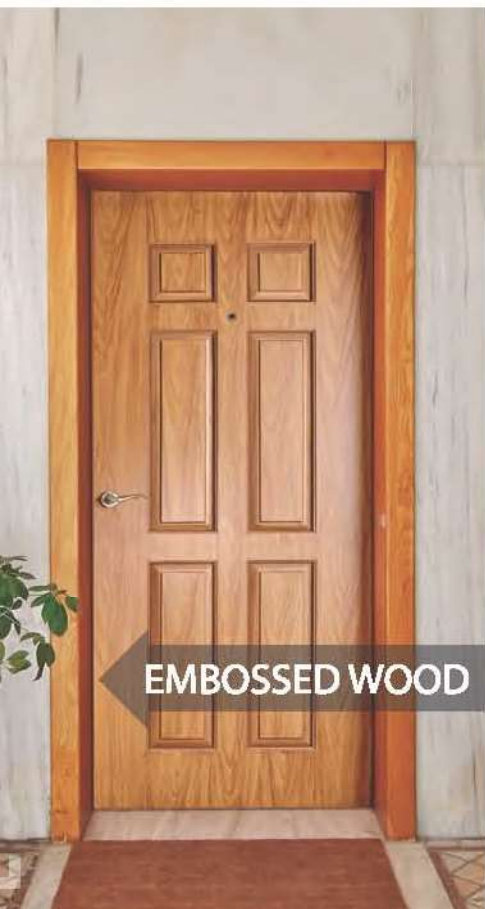
WIDE RANGE OF SOLUTIONS IN FOLLOWING SEGMENTS

- Residential Segment
- Commercial Segment
- Fire Rated Door Segment

RESIDENTIAL DOORS



PLAIN WOOD



EMBOSSSED WOOD



PLAIN STEEL



FLYMESH DOOR



RESIDENTIAL DOORS

- Elegant doors with the strength of steel and finish of wood
- Affordable products with options for a wide variety of customizations
- Fire resistant doors that are termite and weather proof and provide greater security
- Touch, feel and knock properties are same as those of a wooden door



- Latest product from the TATA innovation lab
- Manufactured in state-of-the-art facility using advanced sublimation technology and quality design structure
- Pravesh doors conform to IS 4020, IS 3614, BS 476



EMBOSSSED WOOD FINISH DOORS

Embossed designs come with decorative wood grain finish. Embossed Wood Grain Decorative Finish Doors offer architects the freedom to design interiors without the disadvantages associated with wood.

LONG-LASTING

SECURE

TERMITE-PROOF

FIRE-RESISTANT

VALUE FOR MONEY

ENVIRONMENT FRIENDLY

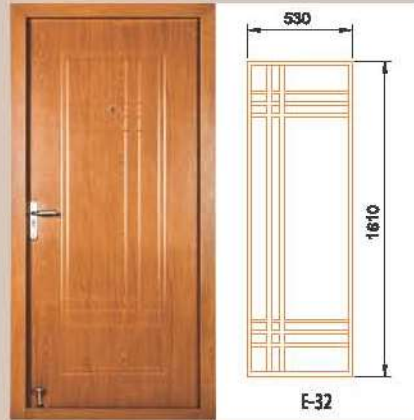
UNIFORM QUALITY

VARIANTS

DECORATIVE WOOD GRAIN FINISHES



SHELL



WAVE



RIPPLE



PEBBLE



COAST

B-Beige

04-01



02-01



22-01



23-01



R-Red

04-01



02-01



22-01



23-01



TECHNICAL SPECIFICATION

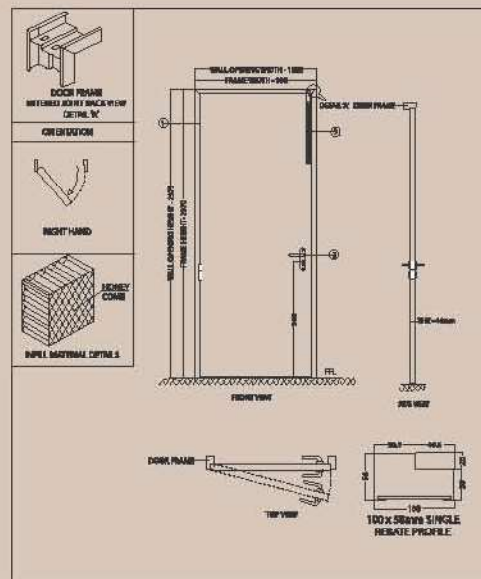
ITEMS	TYPES OF DOORS
Door Leaves	General Purpose Steel Doors and Wood Finish Steel Doors Constructed from 0.0008m (22 SWG) thick skin pass Galvanized Iron Sheet (Conform to IS 277)
Thickness	0.046m
In-Fill	Honeycomb Kraft Paper
Door Frames	Conform to IS 4351: 2003. Constructed from 0.0012m (18 SWG) thick skin pass Galvanized Iron sheet (Conform to IS 277) formed to single rebate profile of size.
Profile Dimensions	0.1m X 0.058m
Accessories	
Hinges	
Material	Stainless Steel Ball Bearing Butt Hinges
Dimension	0.102m x0.076m
Thickness	0.003m
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 edge
Door Closers	Doors are made suitable to receive a large variety of door closers

PLAIN STEEL DOORS

We also offer Plain Steel doors in multiple shades. This variant is also very popular in many applications such as main doors, bedroom doors, bathroom doors etc.



Sl. No.	Door Hardware	Description	Make
1.	SS Ball Bearing Butt Hinges	0.01m x 0.067m x 0.003m	Dorset
2	Lever Handle with Lock	HLIP 06SS	Dorset
3	SS Tower Bolt	0.2m	-
4	Magnetic Catcher	-	-



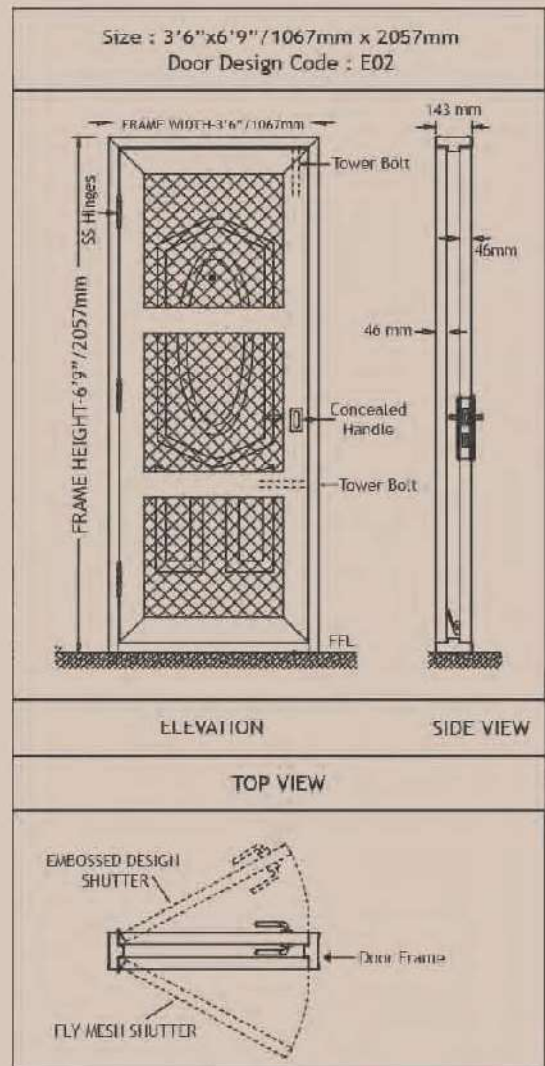
Steel doors are also used extensively in various commercial applications and educational institutions

rs are available in following RAL shades



FLYMESH DOORS

We also provide fly mesh doors in double rebate profile. Mesh is made of SS304 grade and prevents flies, mosquitoes etc. from entering the room



Applications: Entrance Room, office Room, Foyer, Balcony, Staircase

FUNCTIONAL BENEFITS

- Premium finish & stylish designs
- Resistant to damage, peel, crack, warping, bow
- Environment friendly & 100% recyclable

STANDARD PRODUCT FEATURES

PARAMETERS	SPECIFICATION
MATERIAL/FILLING	Honeycomb Paper
FRAME-FILLING	Polyurethane Foam (PUF)
THICKNESS OF SHEET	0.0008 m
THICKNESS OF DOOR	0.046 m/0.030 m
TYPE OF SHEET	Galvanized Iron (GI) Pass Skin Sheet
STANDARD DIMENSIONS	2.134 m x 0.915 m (7 ft. x 3 ft.)
PAINT/COATING	Powder Coating
NUMBER OF HINGES	3
ACCESSORIES	Peephole Lock Stopper Tower Bolt

5 years
warranty

- Manufacturing defects
- Termite infestation
- On colour and texture fading

VARIANTS



SINGLE LEAF

DOUBLE LEAF

DECORATIVE WOOD GRAIN FINISHES

B-Beige

04-01



02-01



22-01



23-01



R-Red

04-01



02-01



22-01



23-01



PLAIN WOOD FINISH DOORS

Plain Wood Designs come with decorative wood grain finish. Plain Wood Grain Decorative Finish Doors offer architects the freedom to design interiors without the disadvantages associated with wood.

LONG-LASTING
SECURE
TERMITE-PROOF
FIRE-RESISTANT
VALUE FOR MONEY
ENVIRONMENT FRIENDLY
UNIFORM QUALITY

SHUTTER DETAILS Door leaf from 0.008m to 0.0012m thick slip coated pre-galvanized steel sheet to ASTM A527/ASTM A525, JIS G 3302 or BS 2989 1994, IS 277. Zinc coating 80-120 gsm. Lock formed panels with internal stiffeners of 0.003m thick made of GP. 0.003m thick hinge reinforcing, hardware mounting plates and lock protection.

FRAME DETAILS Door frame conforming to IS 4351:2003, 0.0012m to 0.002m thick pre-galvanized steel sheet with mitred and welded cones, frame stretches, hinge reinforcing plates, fixing plates and hardware mounting plates.

FINISH Powder coated surface finished with thermosetting Polyurethane paint of Aliphatic Grade providing high levels of scratch resistance and durability/epoxy polyester/pure polyester/polyurethane powder of thickness 60-65 microns

FRAME ASSEMBLY Welded construction with frame spreaders. Bolted frame construction. Knock-down frame construction for wrap around frames.

FRAME THICKNESS 0.012 m

FRAME FILLING Polyurethane Foam (PUF)

DOOR THICKNESS 0.046m or 0.030m

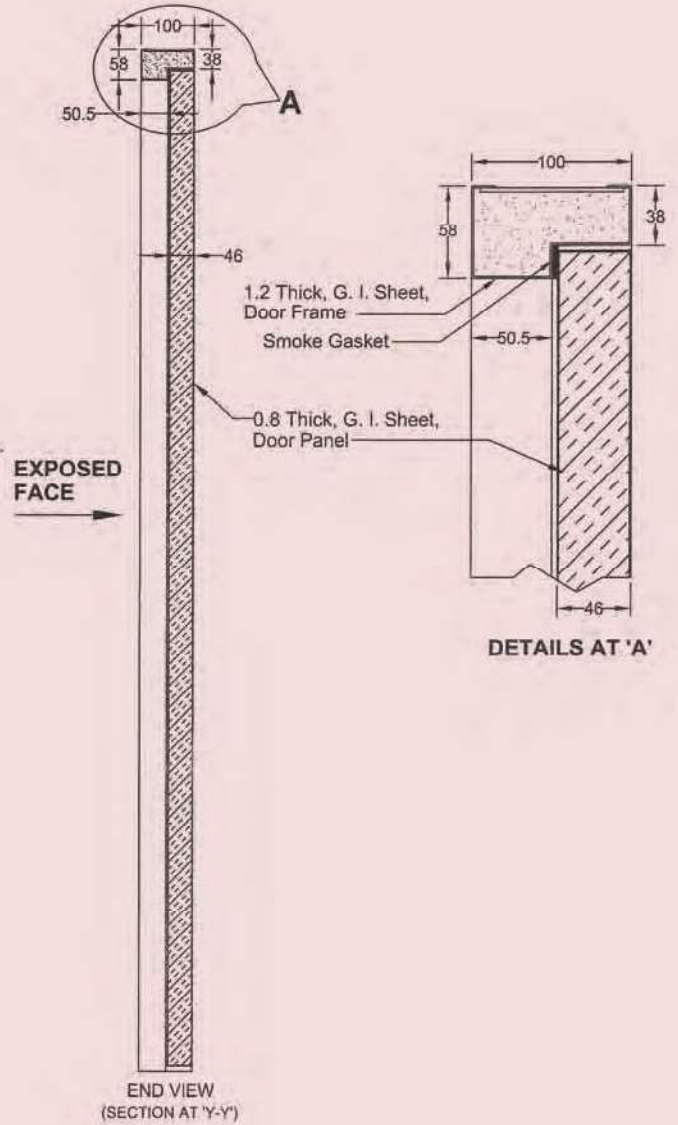
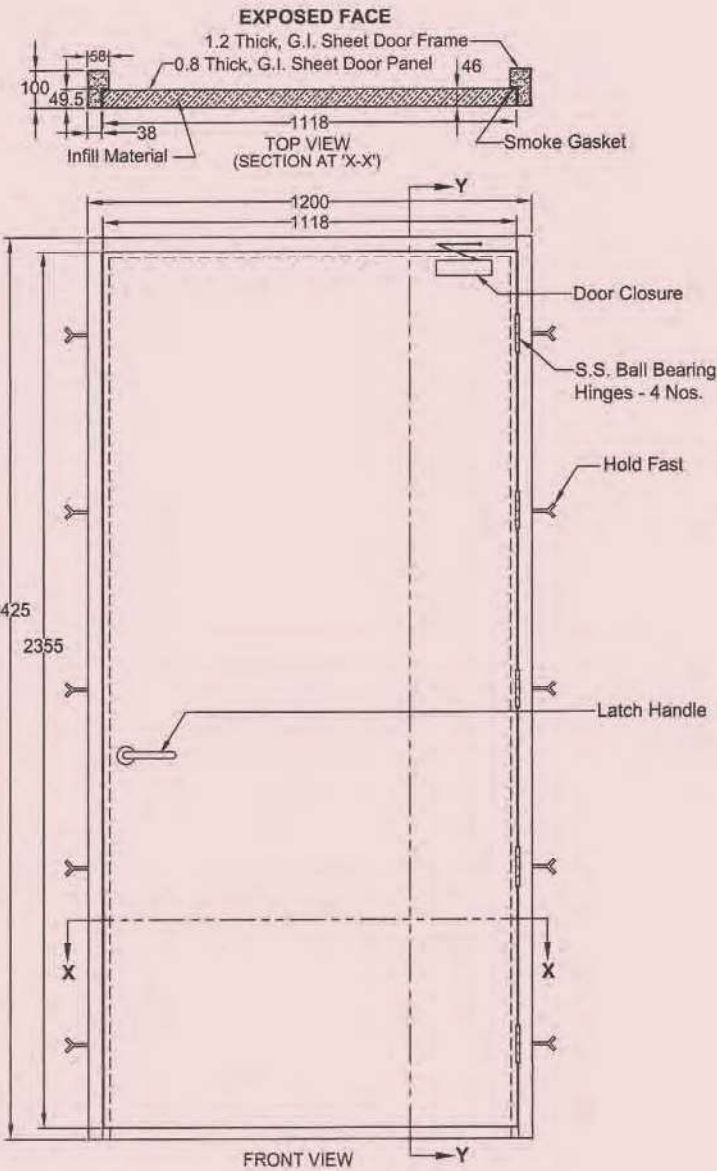
CORE MATERIAL Honeycomb paper, thickness 150 gsm, Load bearing capacity: 500 kg/sq. m.

FIXING Fixing through frame by expansion bolt.

STANDARD DIMENSIONS

Up to 3m high and 2.4m wide subject to test data limitations (9.8 ft. x 7.87ft.)

CROSS SECTION: FRAME & SHUTTER





Röntgen
→

emr to

COMMERCIAL DOORS



COMMERCIAL DOORS



VISION PANEL DOOR



LOUVER



EGRESS

These doors are used in various applications ranging from hospitals, offices, IT parks, shopping malls etc.

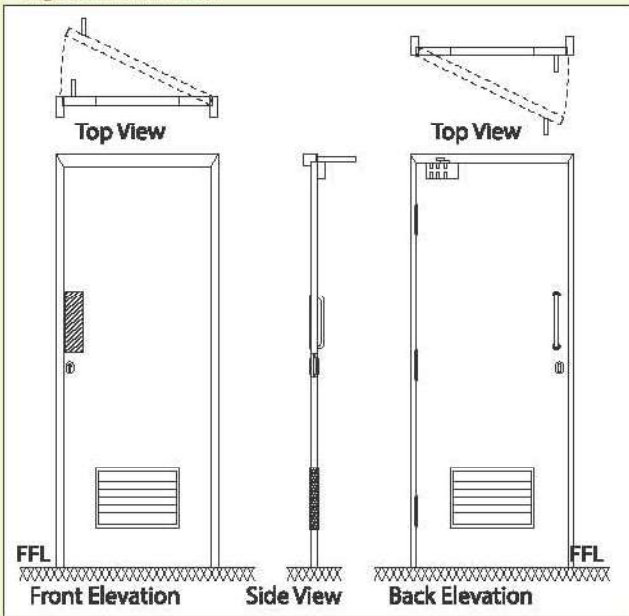


← LOUVER DOOR FULL GLASS DOOR →

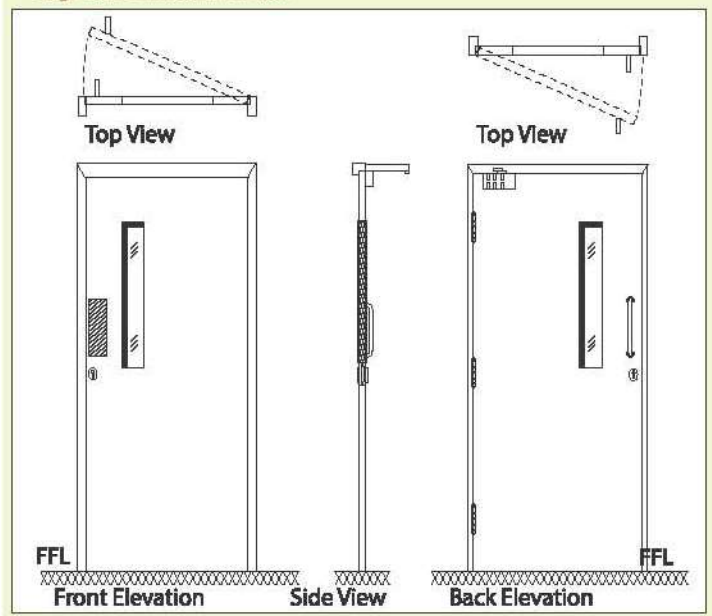
ial Doors are available in following RAL shades



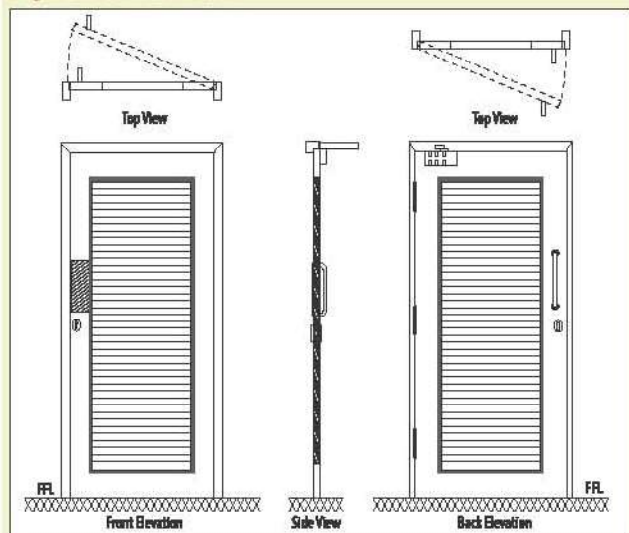
Single Leaf Door with Louver



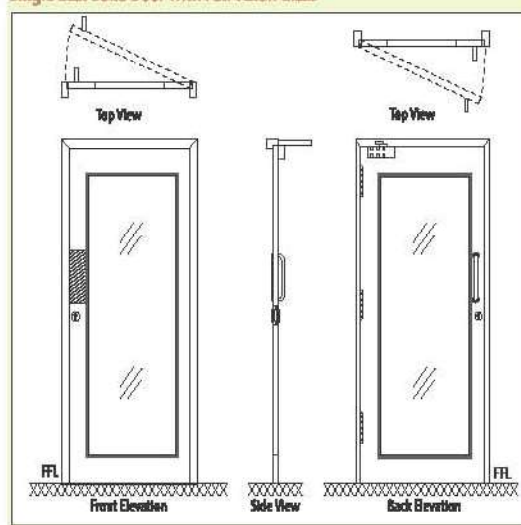
Single Leaf Door with Narrow Vision



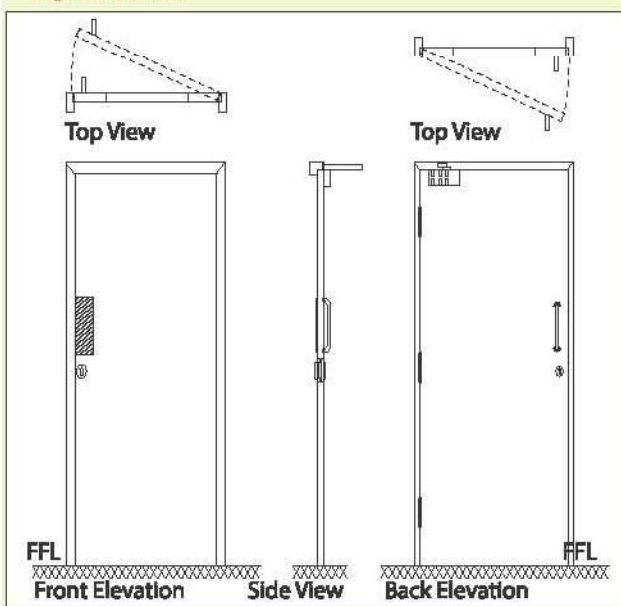
Single Leaf Door with Full Louver



Single Leaf Solid Door with Full Vision Glass



Single Leaf Solid Door



FUNCTIONAL BENEFITS

- Premium wood grain finish
- Less susceptible to damage, peel, crack, warping, bow
- Environment friendly & 100% recyclable
- Superior products at reasonable prices

STANDARD PRODUCT FEATURES

PARAMETERS	SPECIFICATION
DOOR LEAVES	Galvanised Iron Sheet
FRAME-FILLING	Honeycomb Kraft Paper
PROFILE DIMENSION	0.1 m X 0.058 m
THICKNESS OF DOOR	0.003 m
TYPE OF SHEET	Galvanized Iron (GI) Pass Skin Sheet
STANDARD DIMENSIONS	0.102 m x 0.076 m
PAINT/COATING	Zinc Phosphate
ACCESSORIES	Hinges / Lock / Flush Bolt / Door Closers

TECHNICAL SPECIFICATION

ITEMS	TYPES OF DOORS
Door Leaves	General Purpose Steel Doors and Wood Finish Steel Doors Constructed from 0.0008m (22 SWG) thick skin pass Galvanized Iron Sheet (Conform to IS 277)
Thickness	0.046m
In-Fill	Honeycomb Kraft Paper
Door Frames	Conform to IS 4351: 2003. Constructed from 0.0012m (18 SWG) thick skin pass Galvanized Iron sheet (Conform to IS 277) formed to single rebate profile of size.
Profile Dimensions	0.1m X 0.058m
Vision Glass	
Material	0.006m clear float glass
Shape	Circular, square or rectangular
Circular Dia	0.33m
Rectangular Dimensions	0.2m x 0.3m, 0.45m x 0.75m & 0.35m x 0.75m
Louvers	
Material	Factory finished and fixed metal louvers (sight proof)
Shape	Square/Rectangular
Finish	
Coating	The door frames and door shutters are coated with Zinc Phosphate Primer to receive any paint on site or finished with Thermosetting Polyurethane paint of Aliphatic Grade
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
Dimension	0.102m x 0.076m
Thickness	0.003m
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 edge
Door Closers	Doors are made suitable to receive a large variety of door closers

FIRE RATED DOORS

These doors can be used in high-rise buildings, metro railway stations, 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 IS 3614 Part 2 and BS 476 Part 20 & 22.

Doors are tested at

- NTL (National Testing Laboratory)
- CBRI (Central Building Research Institute)
- ARAI (Automotive Research Association of India)

FIRE RATED DOORS



SHAFT/ DUCT ACCESS DOOR



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 conforming to NFPA 80
- Doors are tested at:
NTL (National Testing Laboratory)
CBRI (Central Building Research Institute)



FEATURES

- 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 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 CBRI (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

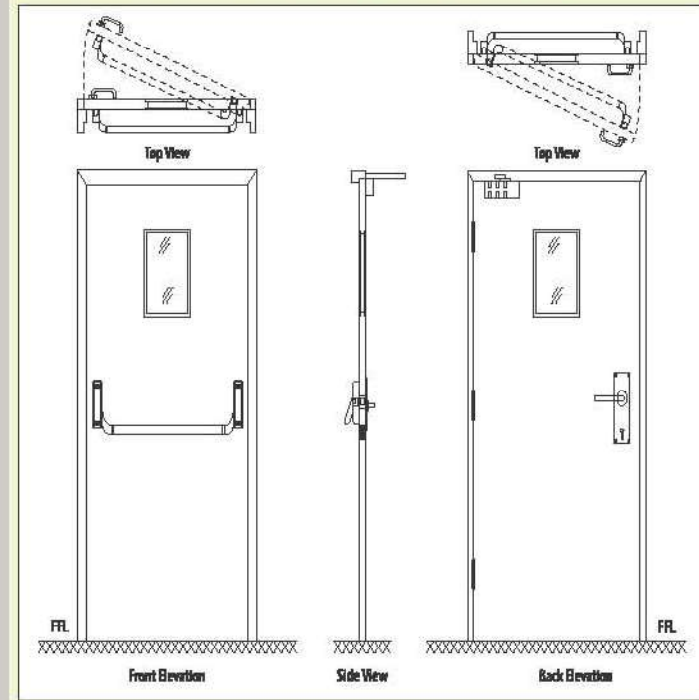
All products carry

5 years
warranty
on manufacturing

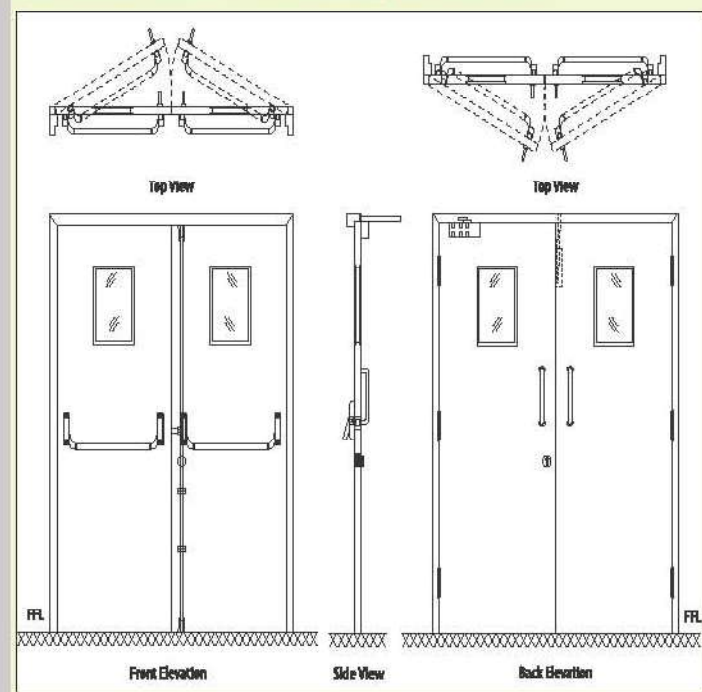
5 years
warranty
on powder coating

DOOR DESIGN SIDE VIEW AND ELEVATION

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



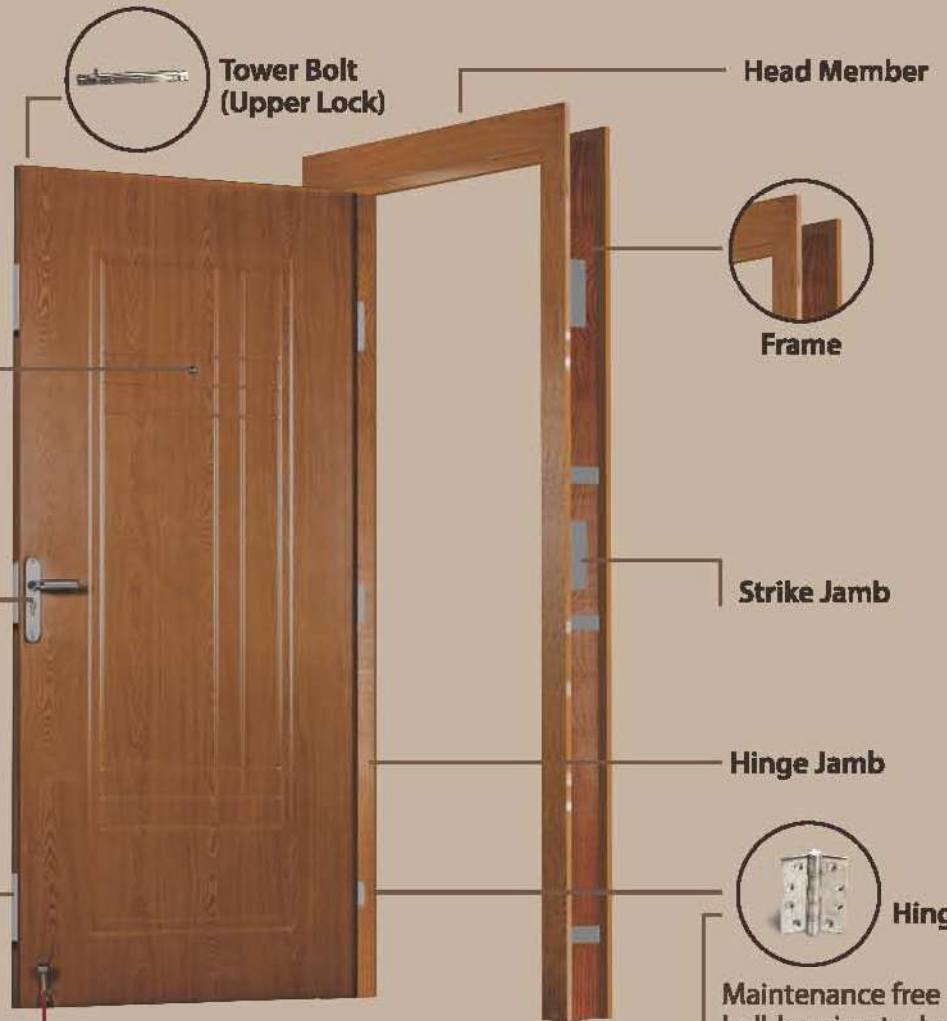
Equal Double Leaf Fire rated Door with Point Locking Panic Bar & 'D' Handle



TECHNICAL SPECIFICATION

ITEMS	TYPES OF DOORS
Door Leaves	<p style="text-align: center;">Fire Rated Doors (2 Hours)</p> <p>Constructed from 0.0012m (18SWG) thick Skin pass Galvanized Iron sheet (Conform to IS 277) or from 0.0008m (22 SWG) thick Skin pass Galvanized Iron Sheet (Conform to IS 277)</p>
Thickness	0.046m
In-Fill	Rockwool/Mineral Wool/ Honeycomb Kraft Paper
Door Frames	Constructed from 0.0016m (12 SWG) thick Skin pass galvanized Iron sheet (Conform to IS 277) or from 0.0012m (18 SWG) thick Skin pass Galvanized Iron sheet (Conform to IS 277) formed to single or double rebate profile of size
Profile Dimensions	0.143m X 0.058m (+/- 0.03m)
Bending radius	0.0014m
Vision Glass	
Material	0.005m thick clear/wired glass Circular or Rectangular
Shape	
Rectangular Dimensions	0.2m X 0.3m
<i>Coating</i>	The door frames and door shutters are primed with Zinc-Phosphate Stoving Primer and finished with Polyurethane Aliphatic grade or epoxy paint as required
Powder Coating Material	Epoxy Polyester / Pure Polyester / Polyurethane
Powder Coating Thickness	60 – 65 Microns (Dry film Thickness)
Accessories	
<i>Hinges</i>	
Material	Stainless Steel Ball Bearing Butt Hinges
Dimension	0.102m X 0.076m
Thickness	0.003m
<i>Lock</i>	Mortise Sash Lock with Lever Handles, Mortise Dead Bolt, Mortise Latch, Panic Devices etc. can be provided as required
<i>Flush Bolts (Double Doors)</i>	Concealed extended lever action flush bolts provided on the top of the door to the leading stile edge
<i>Door Closers</i>	Doors are made suitable to receive a large variety of door closers

BASIC ACCESSORIES



Tower Bolt (Upper Lock)

Head Member



Peephole



Frame



Lock Set

Strike Jamb

Available as a set of Rosette handles, one 10" Mortise lock & a cylinder. Suitable for main doors, bedroom doors and office cabins.



Tower Bolt (Side Lock)

Two tower bolts are provided for internal locking.



Hinge

Maintenance free ball-bearing technology for stability under high radial & axial forces. Available in SS304.



Stopper

One standard door stopper is provided to hold the door.

WARRANTY
FOR PRAVESH DOORS

1 year
warranty - For all accessories

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



Tower Bolts

Make - Crane



Door Stopper

Make - Apace / Dorset



Knob Lock

*Make - Godrej / Hettich
Dorset / Geze*



Lever type Internal Lock

Make - Yale / Hettich / Dorset



Eye view

Make - PAGI



Panic Bar

Make - Geze / Hettich / Dorma



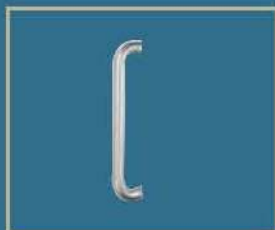
Mortise Dead Lock

Make - Geze / Hettich / Dorma



Door Closer

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



D-Handle

Make - Geze / Hettich / Dorma



Main Door Lock

Make - Hettich / Geze / Dorset



TATA PRAVESH WINDOWS

OYSTER WINDOWS
CANVAS WINDOWS

OYSTER WINDOWS

HIGHEST SECURITY. MAXIMUM BEAUTY.

Pravesh windows have a steel casement along with a vision glass and are given a wood finish. The wide array of styles are both affordable and energy-efficient.

Windows are hinged and are opened or closed by swinging in or out. The casement locks are hook-shaped and embedded within the frame, which makes them unbreakable.

VARIANTS

BASE VARIANT

This type of window comes with grill and glass

MESH VARIANT

This type of window comes with grill, glass and flymesh

BASE VARIANT

SINGLE SHUTTER



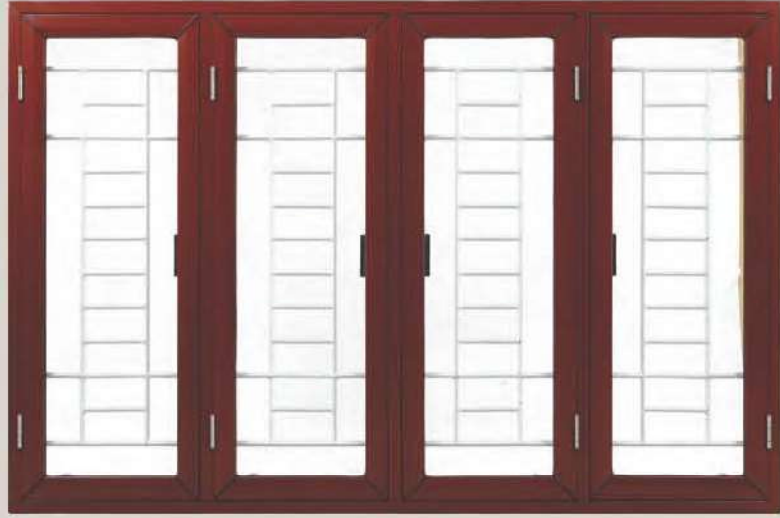
DOUBLE SHUTTER



TRIPLE SHUTTER



FOUR SHUTTER



MESH VARIANT



TECHNICAL SPECIFICATION OF OYSTER WINDOWS

Items	Material Specification
Window Frames and Leaves	Skin Pass Galvanized Iron Sheet (as per IS 513 "D" Quality, Galvanized as per IS 277 with Hot Zinc Coating of 120 grams / Sq.Mtr & thickness of 0.0006m)
Window Shutter	0.0006m (24 SWG) thick skin pass Galvanized Iron Sheet
Window Frames	0.008m (22 SWG) thick skin pass Galvanized Iron sheet of size 0.08m X 0.045m
Mullion	0.008m (22 SWG) thick skin pass Galvanized Iron sheet of size 0.08m X 0.06m
Vision Glass	0.004m clear float glass in rectangular shape. Height and width at least 0.0088m less than that of the shutter height and width
Finish	Coated with Zinc Phosphate Primer or Thermosetting Polyurethane paint of Aliphatic Grade providing high levels of scratch resistance and durability
MS Grill	0.01m square MS bright bars
Accessories	SS Pin type Hinges – 1 Set; Polypropylene Handle – 1; Friction Stay Powder Coated – 1; MS powder coated Tower bolt – 2 (Ethyl Propylene Diamine Monomer (EPDM) Should be used all around glass in shutter for fixing of glass); corner brackets – 4 (made of Polypropylene each per shutter and frame)
Assembly and Installation	The Frame & Shutter Section should be cut to length and miter joined with Corner Brackets made of Polypropylene. Mullion section should be joined with frame / Mullion using Nut and Bolt, Ethyl Propylene Diamine Monomer(EPDM) Gasket should be used all around glass. Window Frame should be fixed to brick / concrete masonry by using Nylon self expanding sleeves and driving MS electroplated 0.006m X 0.095m long screws into the sleeves through frame

CANVAS WINDOWS

SLIDING METAL WINDOWS WITH HIGH STRENGTH & DURABILITY

Our Canvas range of windows will accentuate the look of your room. These are beautiful and extremely durable. The installation is hassle-free while the maintenance is very low.



Specifications:

- Metal Sheet thickness 0.0015m
- Available in same colour as Oyster range

Benefits:

- Higher sheet thickness offers strength
- Virgin (pure non-recycled) metal provides high durability
- Metal profiles selected to handle wind pressure at higher heights

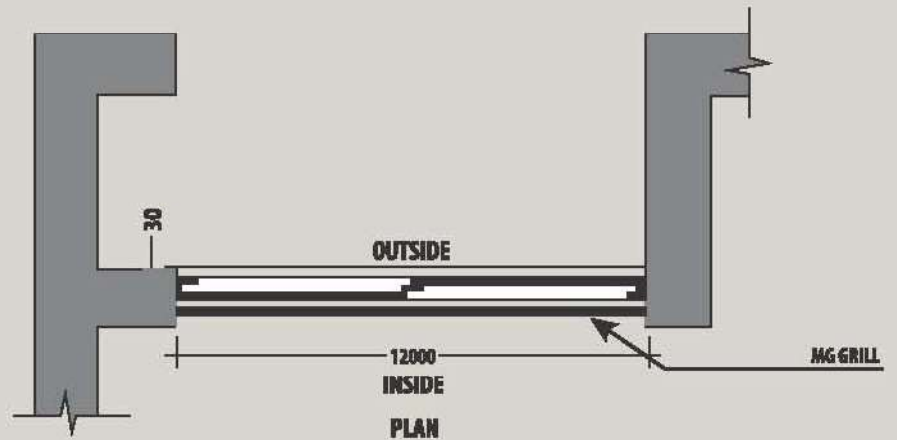
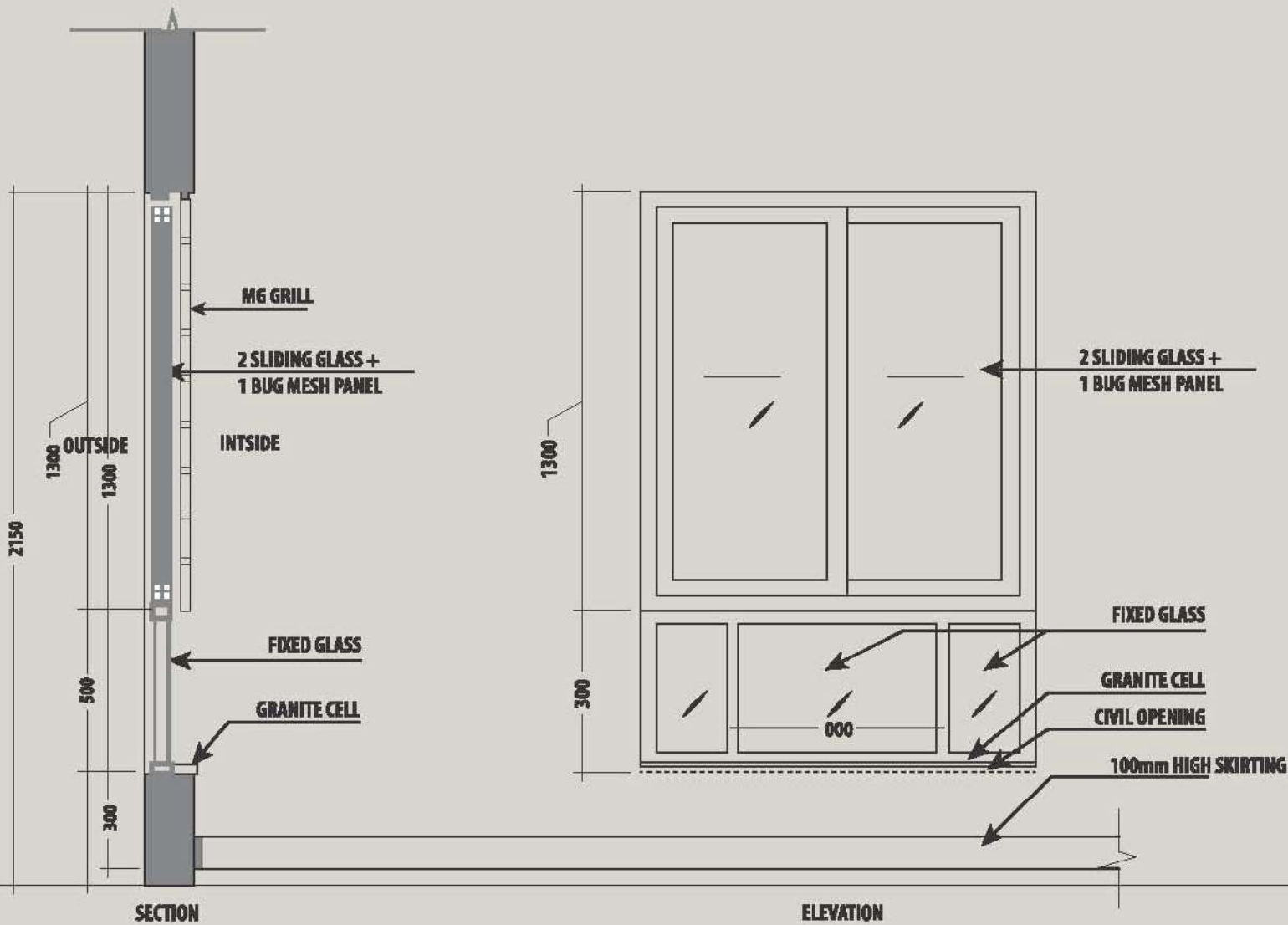


CANVAS WINDOW TECHNICAL SPECIFICATION

Material	Aluminium Alloy
Alloy and Temper	HE9 WP (6063 T5/T6)
Aluminium Sections	Factory made virgin Aluminium Profile
Powder Coating Make	Jotun/Akzonobel
Powder Coating Thickness	60-80 microns
Glass Make	Saint Gobain/Asahi
Glass Thickness and Type	0.005m Thick Clear Float
Flymesh	SS type 304 grade
Flymesh Thickness	0.00022m
Roller	PVC
Push Handle	Powder Coated Aluminium
Flymesh Roller	PVC
Flymesh Handle	Powder Coated Aluminium
Anti-lifter	PVC
Anti-lifter Cover	PVC
U Guide Glass Shutter	PVC
U Guide Mesh Shutter	PVC
Aluminium Cleats	Aluminium die cast for easy joint with button
Screws for L-cleats	SS 304 (0.006x0.013)m
Wall Fixing Screws	SS 304 (0.01x0.1)m
Sleeve For Screws	PVC (0.008x0.035)m
Gasket	EPDM (Ethylene Propylene Diene Monomer) Best Suitable For Sun Light And Water
L-clips for Shutter Corner	Galvanised Iron
Thickness	0.008m - 0.001m

Tolerance will be as per IS:3965-1981

TECHNICAL DRAWING OF WINDOWS



W1

**2.5 TRACKS ALUMINIUM SLIDING WINDOW WITH FIXED GLASS PANEL AS PER DETAIL.
 2 GLAZED AND BUG MESH PANEL, WITH LOCKING ARRANGEMENT.
 GLAZING THICKNESS TO BE CONFIRMED AS PER WIND LOAD FACTOR.**



ADVANTAGES OF TATA PRAVESH CANVAS WINDOWS

VARIABLE	ALUMINIUM VALUE PROP	LOCAL WINDOW ALUMINIUM
Aluminium Grade	<ul style="list-style-type: none"> • 6063 T5 / T6 Grade; Pure Aluminium and Zinc; First time prepared • Back to Back Warranty from the OEM • Profile selected considering strength / wind pressure factors • High grade Aluminium allows for good cuts / and finish 	<ul style="list-style-type: none"> • Local grade Aluminium - often recycled from scrap • No Warranty • Often thin and weak Aluminium profile • Wind pressure / calculation not done • Not as good quality cut and finish of Aluminium profiles
Powder Coating	<ul style="list-style-type: none"> • Jotun / Akzo Nobel (60-80 Micron) • Tape testing and Hammering testing 	<ul style="list-style-type: none"> • Locally available powder used • Paint wearing off happens
Fabrication	<ul style="list-style-type: none"> • CNC machining • Hair Jointing 	<ul style="list-style-type: none"> • Chop saw and Cutter used for profile cutting • Cuts not smooth and finish not good / Joints problem after some time
Glass	<ul style="list-style-type: none"> • Saint Gobain / Asahi • Toughened glass • Wind pressure calculation factored for thickness of glass 	<ul style="list-style-type: none"> • Local glass • Annealed glass • No calculation for wind pressure
Rubber Gaskets	<ul style="list-style-type: none"> • EPDM – high grade rubber - No leakage and heating – better for thermal insulation 	<ul style="list-style-type: none"> • Local gasket • Water and thermal leakage happens
Flymesh	<ul style="list-style-type: none"> • SS-304, high grade flymesh – no rusting 	<ul style="list-style-type: none"> • MS Mesh which is prone to rusting
Hardware	<ul style="list-style-type: none"> • High quality for superior performance and durability • SS 304 Screws – no rusting 	<ul style="list-style-type: none"> • Low quality and hardware that breaks often • Local Screws – rusting occurs



EXPERIENCED CARPENTERS

who are skilled and are familiar with the usage of Drilling machines, Cutters, etc.

EXPERIENCED ALUMINIUM GLAZING FRAME INSTALLERS

(for Doors & Windows)



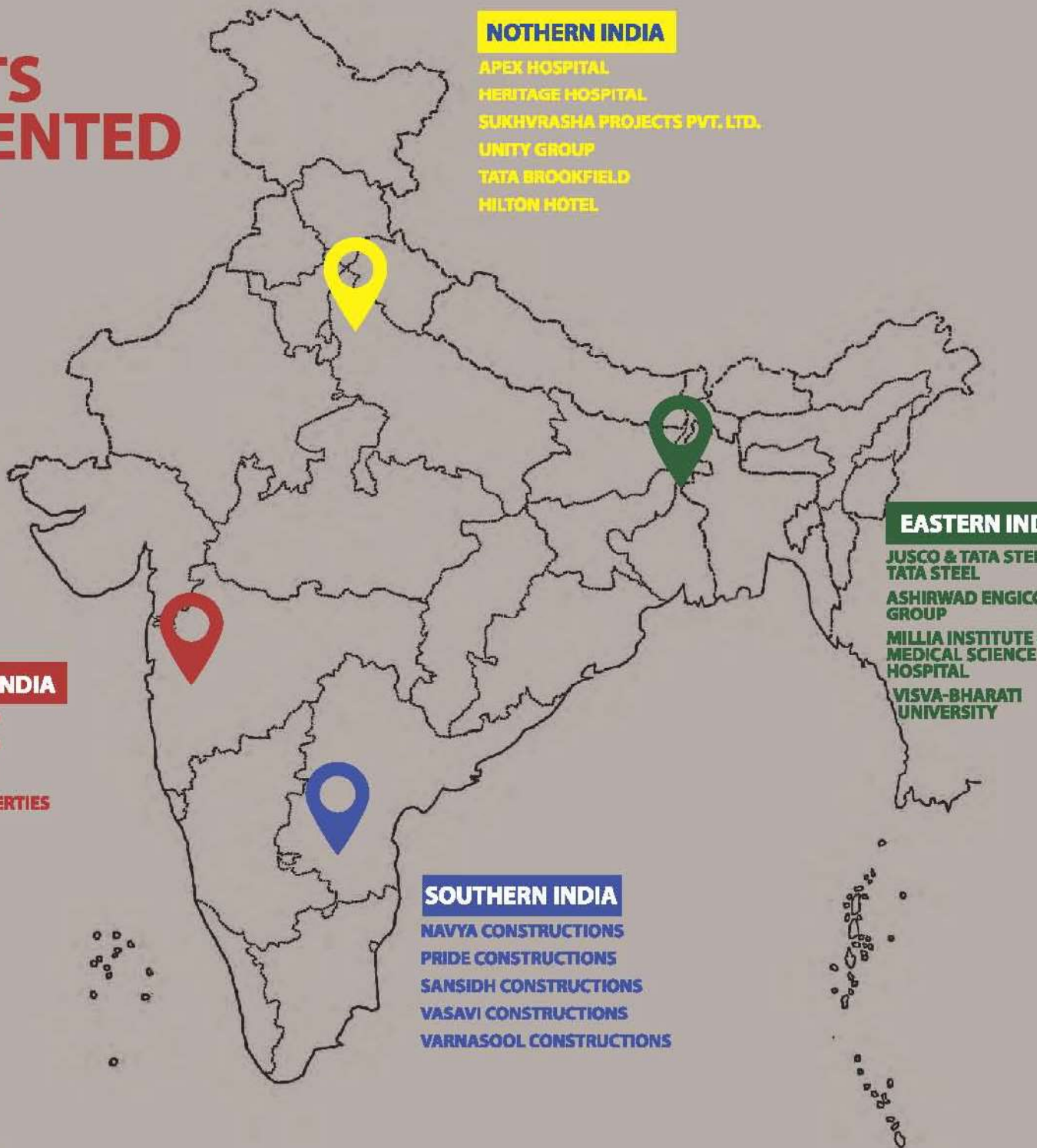
INSTALLATION TEAMS



EXPERIENCED IRON FRAME INSTALLERS

(for Doors & Windows)

PROJECTS IMPLEMENTED IN INDIA

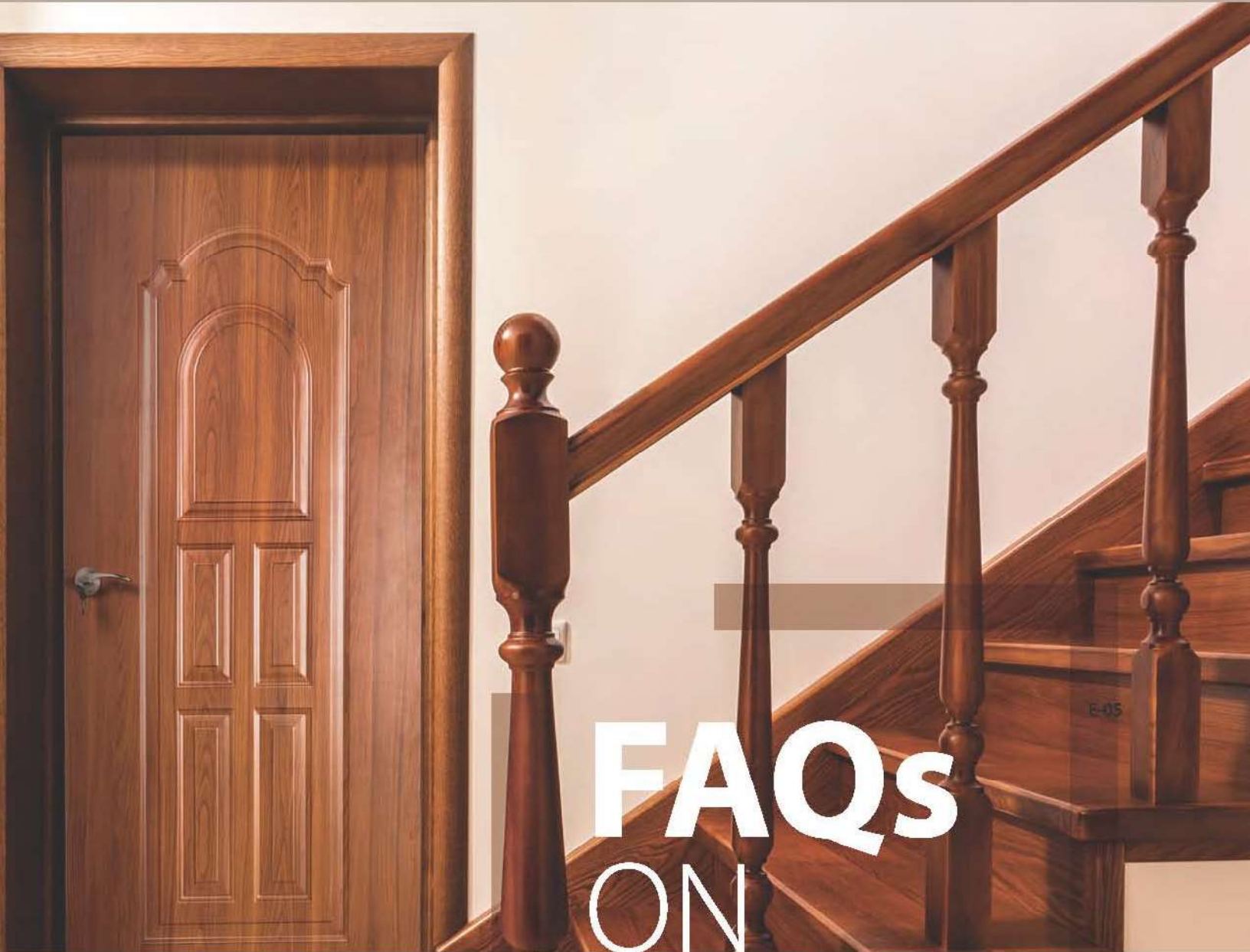


Shown for representative purpose only.



FAQs ON FRAME

What is Architrave?	Additional 0.02m bidding which hides gap between wall and frame, this bidding is a part of the frame itself.
Can we provide both side architraves?	No, only on the outer side of the wall; because during installation it will create issue as frame will not fit in when we are doing installation of three sides together. Separate strips can be explored.
What is the difference between profile of frame and thickness of frame?	100*58, 143*58 are profiles of frame and 0.0012m GI sheet is thickness of sheet of frame.
What is the standard profile of the frame; what is the maximum profile of frame is possible; what is the in-fill of frame in case of residential and fire rated doors?	Standard frame profile is 100*58 and for Fire rated doors 143*58; customized frames can be manufactured depending on the number of units with maximum 0.3m frame width; number of units should be ideally 500.
What is Threshold and why is it useful?	Threshold is additional 4th side of frame, which comes at the bottom, required in case of balcony or main doors to prevent water to come in.
Is threshold a part of frame itself?	Yes.
Does any part of the frame go inside the floor?	If customer requires grouting, only then, but it will have to be installed before flooring.
When is frame supposed to be installed?	Our frame is installed after tiling is done and putty coat is done on walls.
Can we install our doors on any other frames- like granite, wood or concrete?	Concrete is feasible. We cannot do it on granite or wooden frame.
How much is the gap between a frame and a closed door?	0.003m on each side.
How many screws are used in total to install a frame?	For a standard sized door 12 screws are used.
How many hinges we put in a door, is it related to height of door?	3 or 4 depending on the height.
What are various types of screw we use?	Size- dia 0.008m for all, Metal Anchor length- 0.08m, Nylon Anchors length- 0.07m for windows, 0.09m for doors.
What kind of screws are used in door installation for concrete/ block/brick wall?	For brick wall- we use metal anchors, but for hollow blocks like AAC blocks, we use fisher screws as metal anchors might break block.
How deep do the screws go inside the wall?	0.08m.
How do we ensure straightness of frame during installation?	Through shims and then those are covered through sealant or putty.
How do we fill gap between frame and wall?	Polyurethane foam (PUF) or Rockwool in case of fire rated doors.



FAQs
ON
DOORS

What is the maximum height and width of the door possible for single leaf door?	w-1.2m and h-3m.
What is the maximum height and width of door possible for double leaf door?	w-2.4m and h-3m.
To what extent are our doors sound proof?	40 dB.
Our plain steel doors are fire resistant for how many minutes?	120 mins.
What is the difference between single leaf and single rebate?	Concept of Single rebate is related to frame structure; single leaf means single shutter
What kind of powder coating do we do on our doors?	Polyurethane
Which company's powder we use for powder coating?	Jotun
What is the thickness of powder coating and what is its significance?	60-80 micron. It will not fade for a long period.
Which grade of steel is used and what is the thickness of same for making shutter?	GI Sheet (Conforming to IS -277).
What kind of welding we use to leave provision for hardware?	For standard H/W, projection welding (Electrically charged), otherwise mig welding (Using gases).
How do we take care of scratches on the doors?	We use touch up kit.
Is there any protective layering we provide on top of our doors?	PU coating; EP only for shaft doors.
Can we change or add hardware after few years in Pravesh door?	We can change the hardware of the same dimensions but we cannot add any additional hardware as cutouts are factory made.
Can we put name plate or hanging bar on Pravesh doors?	Will require extra manufacturing time but can be done.
Can doors be repainted or recoated ?	Yes.
Can we put any laminate or veneer on top of the door, if yes, how do we paste it?	We can, by putting Fevicol; but no warranty can be provided. It is not recommended as it may peel off.
Is there any testing/ certificate we have for better performance of our doors as compared to wood?	Yes, we have done testing at National Testing Laboratory, New Delhi. We have test certificate for GI sheet and we have done salt spraying test for corrosion.
For how long Pravesh doors won't rust, is there any testing done for same?	5 years.
What are the possible thickness of main door and internal doors?	0.046m external door; 0.03m and 0.046m for internal door.
Can we make foldable doors?	No.
Can we make sliding doors?	Yes.
Can we make swing doors?	Yes.
Can we make full glass doors?	We have to keep 0.15m gap from all sides.
Can we make acoustic doors?	Yes, but we don't have certificates.
Can we make scientific/ hospital (OT) doors/ Flush SS doors?	Yes, we can.
How much warranty we provide on our doors?	5 years of manufacturing warranty.
Does our costing include material handling cost within site?	Material loading and unloading is at customer's scope. But, if required we can provide the resources as per customer requirement.
What all activities come under our scope of installation?	Refer Installation deck.
For how long our prices are valid in projects after giving quotation?	1 month.
What is the thickness of zinc coating that we do on the doors?	120 gsm.

FAQs

ON HARDWARE



What is the size of the screws?	0.08m
What are bump ons and where are they put?	Bumpons are used to absorbe shock and reduce noise and vibration when the doors strikes the frame; Bumpon is put on the side of the shutter on the frame.
Which company's Honeycomb we use?	It is imported from the German firm named Kraft.
What is the load bearing capacity and thickness of Honeycomb that we use?	500 kg/sq.mt.
Is honeycomb paper that we use waterproof?	Yes, it provides water resistance.
Can we paint or coat our hinges in shade of doors?	Yes, we can provide holecaps in the same shade.
What is a mortise lock and what are its benefits?	In mortise lock, we have handle as part of the system. Handle is used to operate the latch. No additional handle is required unlike in case of a dead lock. It also comes with dead bolt, which is operated by the key. It's very safe and secure for external doors. Also, a different variant can be provided with one side key and one side thumb turn.
What is a lever lock and what are its benefits?	Lever handle locks are more commonly found in commercial locations. These types of handles have push down handles rather than knobs that turn. The locking mechanism is located in the handle.
What is a cylindrical lock and what are its benefits?	Cylindrical knob locks come with two knobs with one side key and one side push button. It also comes with a variant of coin operated slot. It is very safe in case a children or an old person gets locked inside. It is used for internal doors such as bedrooms, washrooms etc.
What is drop seal and where is it used?	Drop seal is used at the bottom to plug the air gap.
What are the various sizes and makes of handles which are available?	Please refer to different sizes of D handle and H handles.
What are the various types of glasses which are available and what are the advantages of each (Wired, Clear, Toughened, Glazed)?	Clear glass is the most basic glass available, toughened glass is not easily broken,Wired glass is a type of glass into which a wire mesh is embedded during production. Wired glass has an impact resistance similar to that of normal glass, but in case of breakage, the mesh retains the pieces of glass. This product is traditionally accepted as a low-cost fire-resistant glass.
What are shims and where are they used?	Shims are plastic strip used to close gap between door frame and wall.
How much warranty do we provide on our hardware?	5 years on lock, 1 years on internal door locks, 1 years on other hardware; It's back to back warranty that we receive from hardware manufacturers.



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?	950 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.
What is maximum height and width possible for double leaf FRD?	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 or honeycomb provides on insulation?	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 provide 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?	5 years.
What are various certifications that we have for fire rating?	CBRI, UL, ARAI.

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