

TATA STEEL

#WeAlsoMakeTomorrow

**TATA
PRAVESH**



**WELCOME
WELLNESS**

SPECIALISED
HOSPITAL DOORS
& WINDOWS





WHY TATA PRAVESH

Hospital doors and windows can be a major source of contamination and Infection. Hygiene standards in hospital are getting developed across the world.

Tata Pravesh provides tailor made, wide range of specialized hospital specific solutions for doors and windows, along with hassle free installation services.

Tata Pravesh doors for Healthcare segment are designed specifically to meet the stringent hygiene standards and requirements of hospitals.



UNIQUE FEATURES* OF PRAVESH DOORS AND WINDOWS



BACTERIA RESISTANT



CHEMICAL RESISTANT



FIRE RESISTANT



RADIATION RESISTANT



IMPACT RESISTANT



NOISE RESISTANT



STRONG



LIGHTWEIGHT



LONG LASTING

*Aggregated features shown above. Individually, they pertain to specific doors and accessories.



ENTRANCE AREA

Entrances doors are required at wide openings for easy movement of stretchers and crowds

Solutions:

Automatic fully glazed sliding doors, patch fitting doors

Features:

- Wide opening with manual and automatic options
- Easy movement of stretcher and wheel chairs
- Highly customizable

Hardware:

Automatic sliding systems, Patch fittings, Floor swing, D-Handle



DOUBLE LEAF DOOR



PLAIN DOOR



PLAIN DOOR WITH VISION PANEL



TRANSITION AREA

Doors to ensure free movement of bulky beds, equipment, staff and patients

Solutions:

Double action doors with both side swinging with vision panels.

Features:

- High Intensive EPDM Gasket Seal to meet hygiene requirements
- Easy movement of stretcher, beds, equipment and wheel chairs
- Highly customizable with various designs and shades

Hardware:

Floor spring, Kick Plate upto 900 mm height, Push Plate upto 175*300 mm.

Dead Lock with both side key operations, Flush Bolt to lock non active shutter, vision panel, door closer.



AUTOMATIC DOUBLE SWING
DOORS WITH VISION PANEL



SINGLE LEAF



FUNCTIONAL & TREATMENT ROOMS

Designed for test procedure rooms,
where X-rays or other harmful
elements should not be leaked outside

Solutions:

Dust free door with double glazed vision panel with single/double swing options

Features:

- Lead Lined doors for protection from radiation of X-rays/MRI/CT Scan
- Lead sheet thickness of 1 mm – 1.6 mm (customizable as per X-ray radiation details)
- High intensive EPDM Gasket Seal to meet hygiene requirements



**GLAZED DOORS
WITH METAL FRAMES**

HARDWARE:

Door Seal,
Automatic Drop Seal,
Latch Lever Lock,
other standard hardware.

SPECIFICATIONS:

Door Weight- Max 150 kgs
Door Width- 1200- 1570 mm
Door Height- 2350- 3000 mm



OT ROOM



INTENSIVE CARE UNITS

Doctors can monitor the equipment and patient status through vision panel of our doors.

Solutions:

Automatic sliding or double swing doors with vision panel.
Fully glazed doors with metal frames

Features:

- Quick access to authorized personnel
- Visibility of equipment and patient condition from outside
- Dust free environment to maintain hygiene environment

A photograph of a hospital hallway. Two bright blue doors with vertical rectangular vision panels are set into a light-colored wall. A silver metal waiting chair with blue and grey upholstery is positioned in the foreground on the left. The floor is a light, polished material. A green banner is overlaid on the left side of the image.

PLAIN DOOR WITH VISION PANEL

A photograph of a double blue door with vertical rectangular vision panels. The door is set in a white frame against a light-colored wall with a dark brown horizontal stripe. The door has a silver handle and a lock. A green banner is overlaid on the left side of the image.

ICU

SPECIFICATIONS:

Door Weight- 40- 50 kgs per leaf
Door Width- 2400 mm
or as per customer specification
Door Height- 2440 mm
or as per customer specification

HARDWARE:

Drop Seal, Door Seal,
Double Glazed Vision Panel
with other standard hardware as
per client's requirement.



OPERATION THEATRE & LABORATORIES

Doors to ensure hassle free entry and quick access while providing high level of hygiene.

Solutions:

Double swing double leaf doors, sliding doors with vision panel

Features:

- Hermetic Sealing: Minimizes air flow – preventing bacteria/dust particles transmission
- Sliding doors with sensors. Surgeons do not need to touch the doors
- Designed to withstand exposure of chemicals



HARDWARE:

Drop Seal, Kick Plate, Push Plate, Double Glazed Vision Panel, Anti-Microbial Handle and other standard hardware.



GENERAL PURPOSE DOORS:

VISION PANEL DOORS,
LOUVER DOORS AND
PLAIN STEEL DOORS



LOUVER DOOR



VISION PANEL DOOR



PLAIN STEEL DOOR

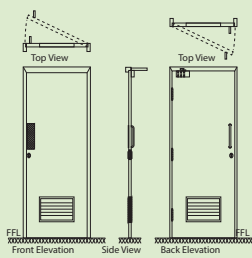


LOUVER DOOR

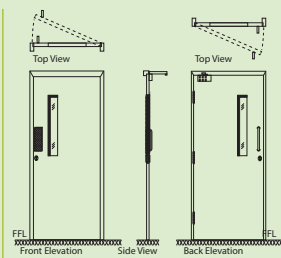


FULL GLASS DOOR

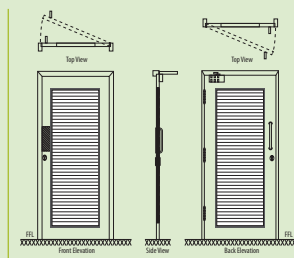
Single Leaf Door with Louver



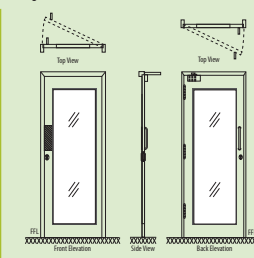
Single Leaf Door with Narrow Vision



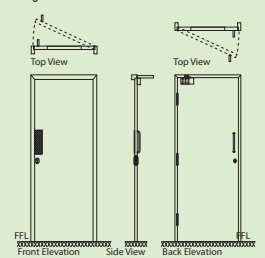
Single Leaf Door with Full Louver



Single Leaf Solid Door with Full Vision Glass



Single Leaf Solid Door



Commercial Doors are available in following RAL shades



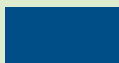
RAL 3011



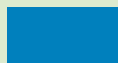
RAL 3020



RAL 7032



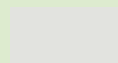
RAL 5010



RAL 5015



RAL 5023



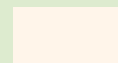
RAL 9003



RAL 8017



RAL 9002



RAL 9010



RAL 9001

TECHNICAL SPECIFICATION

| ITEMS | TYPES OF DOORS |
|-----------------------------------|---|
| | General Purpose Steel Doors and Wood Finish Steel Doors |
| Door Leaves | Constructed from 0.8mm (22 SWG) thick skin pass Galvanized Iron Sheet (Conform to IS 277) |
| Thickness | 46mm |
| In-Fill | Honeycomb Kraft Paper |
| Door Frames | Conform to IS 4351: 2003. Constructed from 12mm (18 SWG) thick skin pass Galvanized Iron sheet (Conform to IS 277) formed to single rebate profile of size. |
| Profile Dimensions | 100mm X 58mm |
| Vision Glass | |
| Material | 6mm clear float glass |
| Shape | Circular, square or rectangular |
| Circular Dia | 0.33m |
| Rectangular Dimensions | 0.2mx0.3m, 0.45mx0.75m & 0.35mx0.75m |
| Louvers | |
| Material | Factory finished and fixed metal louvers (sight proof) |
| Shape | Square/Rectangular |
| Finish | |
| <i>Coating</i> | 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 | |
| <i>Hinges</i> | |
| Material | Stainless Steel Ball Bearing Butt Hinges |
| Dimension | 0.102m x0.076m |
| Thickness | 3mm |
| <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 |



FIRE RATED DOORS



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)



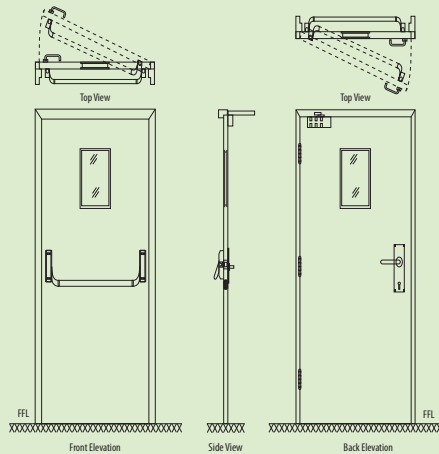
**Underwriters
Laboratories**



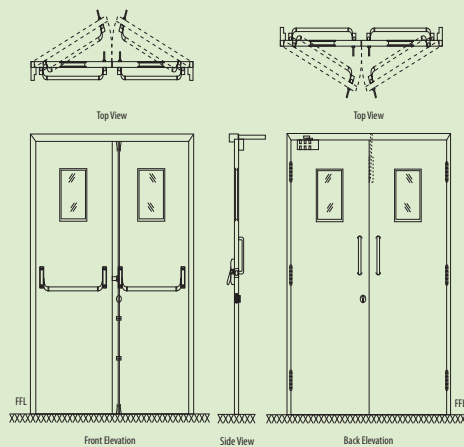
DOOR DESIGN

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



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 conforming 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

TECHNICAL SPECIFICATION

| ITEMS | TYPES OF DOORS |
|-----------------------------------|--|
| Door Leaves | Fire Rated Doors (2 Hours) Constructed from 1.2mm (18SWG) 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 (Conform to IS 277) or from 1.2mm (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 | 5mm 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 |

DOOR ACCESSORIES



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 -
Dorset, Geze, Dorma, Hettich



Tower Bolts

Make - Crane



Door Stopper

Make - Apace / Dorset



Knob Lock

Make - Godrej / Hettich
Dorset / Geze



Lever type Internal Lock

Make - Dorset



Eye view

Make - PAGI



Panic Bar

Make - Geze / Hettich / Dorma



Mortise Dead Lock

Make - Geze / Hettich / Dorma



Door Closer

Make - Geze, Dorma, Hettich



D-Handle

Make - Geze / Hettich / Dorma



Main Door Lock

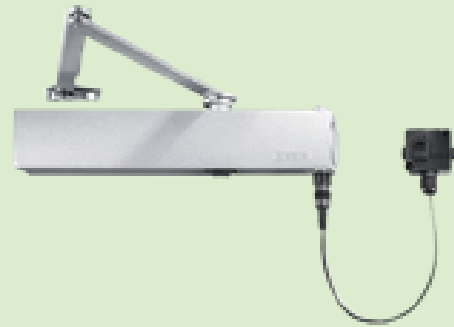
Make - Hettich / Geze / Dorset

STANDARD HARDWARE FOR HOSPITAL DOORS



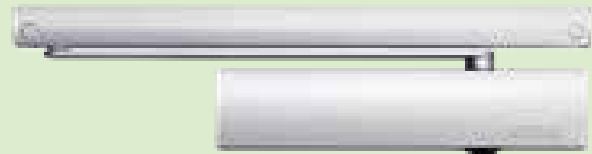
Free-swing door closers

- Suitable for the doors of patients' and nurses' rooms .
- The door can be passed through in opening and closing direction without any resistance.
- Free-swing door closers are suitable for fire and smoke doors.



Hold-open devices for fire and smoke doors

- These devices are used to keep the door open and ensure working to continue smoothly.
- Also, they help to close the door easily in the event of a fire or smoke.
- These devices free the movement of the rushing staff, patients and equipment.



Integrated Door Closer:

- Are used for single and double leaf doors where door closer should be invisible.

Access control system:

- An access control system regulates who may enter sensitive parts of the building and rooms at certain times

ANTI-BACTERIAL ACCESSORIES:

Our special accessories contain silver ions which are embedded in a carrier system of ceramic glass. They form an active part of this material and prevent growth of germs such as bacteria, algae, and fungi. The silver ions destroy the cell membrane of the germ, preventing cell division.

FEATURES:

- Reduces microbial growth by more than 99%
- Effective even when cleaned at regular intervals

ANTI-BACTERIAL EFFECTIVENESS



High bacterial load on the surface



Significant reduction in bacterial load on the surface



Silver ions destroy the cell membrane



Germ is killed

“ Using a door handle is like shaking hands with 1000 strangers ”



Anti-bacterial accessory details shown here pertain to Geze or equivalent

TATA PRAVESH WINDOWS

CANVAS WINDOWS | OYSTER WINDOWS



CANVAS WINDOWS

Thermal and Sound resistance
because of double glazed glass
and high quality rubber gaskets

Extra smooth finish due to use
of Virgin Aluminium grade 6063
T5/T6 and power coating of
60-80 microns

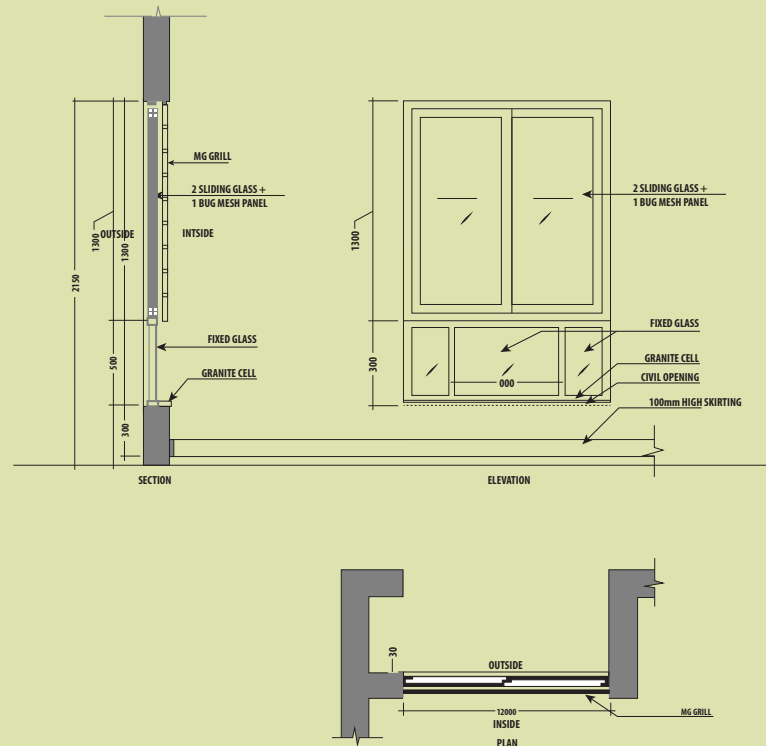


CANVAS WINDOW TECHNICAL SPECIFICATION

| | |
|----------------------------|--|
| 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.



OYSTER WINDOWS

Highest Security. Maximum Beauty.

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

Protection from flies and mosquitoes with our mesh variant.

BASE VARIANTS



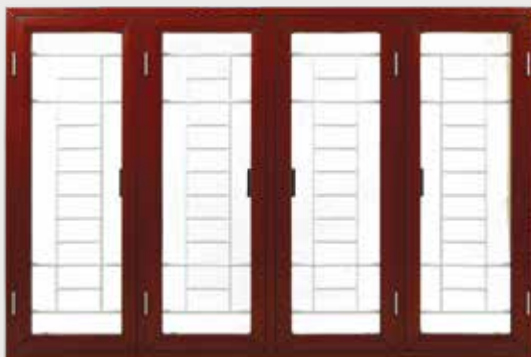
SINGLE SHUTTER



DOUBLE SHUTTER



TRIPLE SHUTTER



FOUR SHUTTER



MESH VARIANT

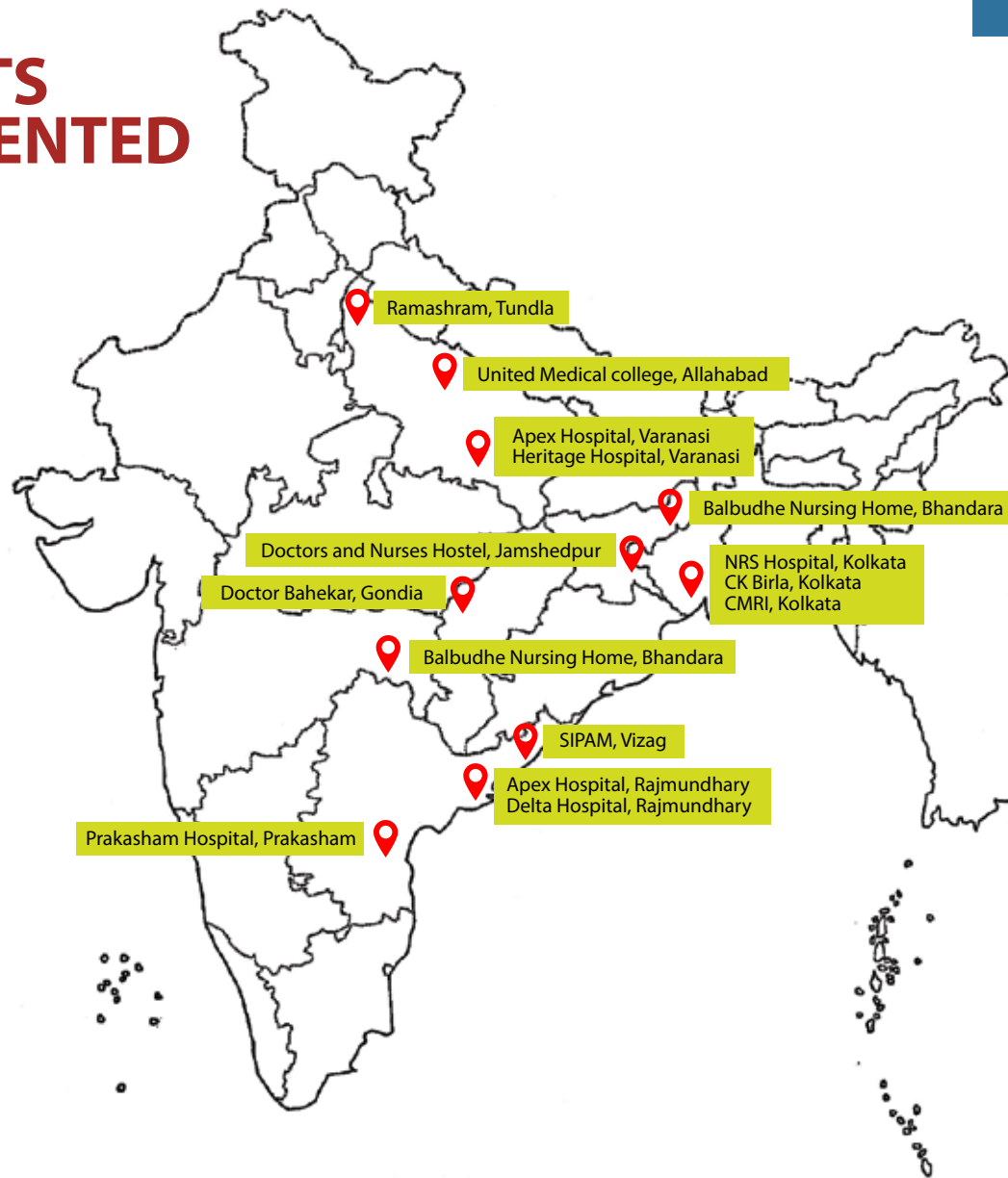
OYSTER WINDOWS

TECHNICAL SPECIFICATION

| 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 | 0.6mm (24 SWG) thick skin pass Galvanized Iron Sheet |
| Window Frames | 0.8mm (22 SWG) thick skin pass Galvanized Iron sheet of size 0.08m X 0.045m |
| Mullion | 0.8mm (22 SWG) thick skin pass Galvanized Iron sheet of size 0.08m X 0.06m |
| Vision Glass | 4mm 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 | 10mm 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 |



PROJECTS IMPLEMENTED IN INDIA



Shown for representative purpose only.



EXPERIENCED CARPENTERS

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

EXPERIENCED ALUMINIUM GLAZING FRAME INSTALLERS

(for Doors & Windows)



EXPERIENCED IRON FRAME INSTALLERS

(for Doors & Windows)



Pravesh Doors offer service and solutions to both Home Makers and Home Builders

Call us toll free at:
1800 4199 200

Email us at:
tatapravesh@tatasteel.com