# HBC
FIRE DOORS

# A House of Complete Fire Exit Solutions

TYPES OF DOORS

- Wooden Fire Doors / Metal Fire Door / Acoustic Cum Fire Doors

- Glazed Fire Doors / Fire Rated Glazed Fixed Partition (Fire Rated Glass)

- Steel / Wooden Lead Line Doors / Clean Room Doors

- Pressed Steel Doors & Windows
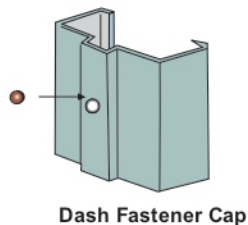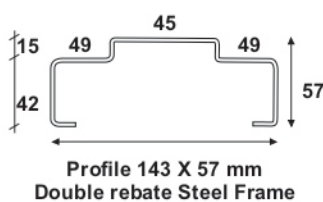
- Fire Rated Hardware

- Architectural Systems

MFD-4

MFD-2

**Profile 143 X 57 mm
Double rebate Steel Frame**

Dash Fastener Cap
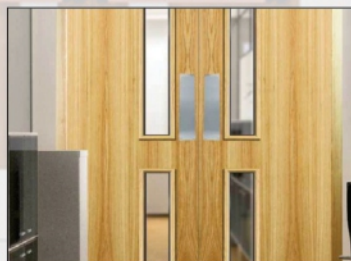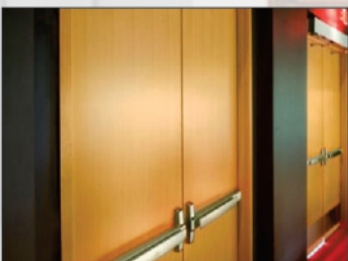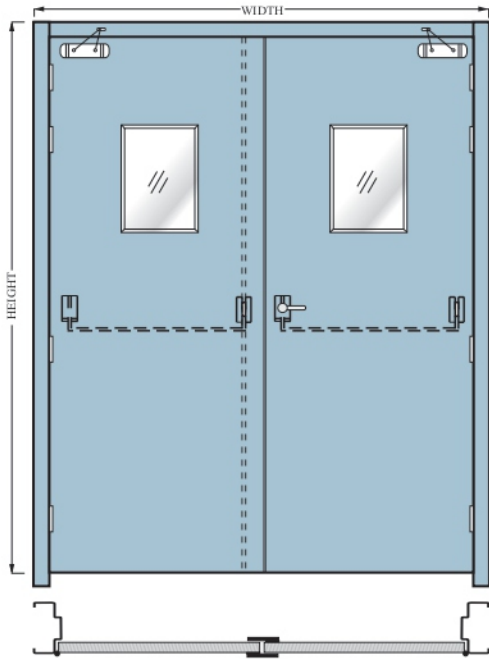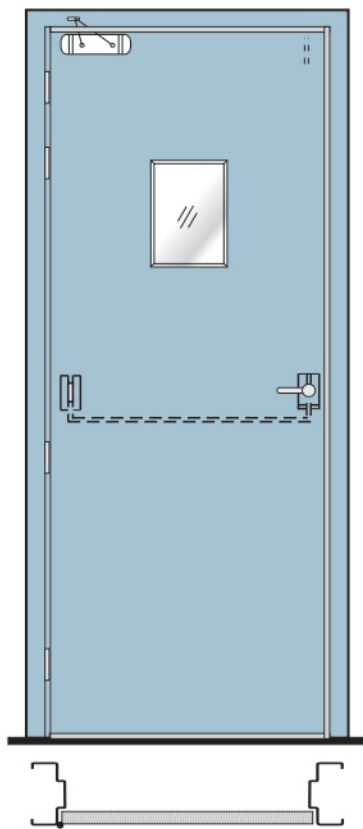
Metal Fire Rated Door Specification
(Single leaf door/ Equal leaf door/Un-equal leaf door)

Door Type	: Metal Fire Rated Door
Fire Rating	: 120 mins
Shutter Thickness	: 46 mm
Criteria	: Stability, Integrity & With Insulation Material
Testing Standards	: BS 476 Part 20-22, IS 3614 Part 2
Frame Size	: 100 x 57mm Single Rebate 143 × 57mm Double Rebate.

Construction Details

* Steel Frame Profile Design
* Frame Thickness – 1.20 mm/ 1.60 mm Galvanized Steel
* Shutter Sheet Thickness – 1.0 / 1.2 mm Galvanized Steel
* Vision Panel – 2hrs. Fire rated Toughened clear Glass
  (Optional)
* Shutter Thickness – 46 mm
* Shutter Infill Insulation – Fire Rated Insulation
* Finish powder coated finish in desired shade

Recommended Hardware

1. SS Ball Bearing Hinges – SS 304 of
    Size 100mm x 75mm x 3mm
2. Door Closer – Fire rated
3. Tower Bolt / Flush Bolt

Optional Hardware

4. Mortise Dead Lock Set with Cylinder- complete with
    D Shape Pull handle for Push / Pull Operations
5. Mortise Sash Lock with Cylinder –
    Complete with Lever Handle for Push / Pull Operations
6. Fire Rated Panic Bar – Push Side Operation
    Fire Rated External Panic Trim – Pull Side Operation
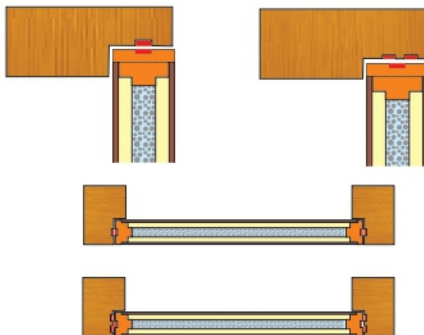
Recommended Finishes

1 Powder Coating in desired RAL Shade Code
2 Polyurethane Coating in desired RAL Shade Code
3 Selective Wood Grain Finishes available

HBC
FIREDOORS

WFD-1

WFD-2

Wooden Fire Rated Door Specification

Door Type	: Wooden Fire Rated Door
Fire Rating	: 60mins/ 120 mins
Shutter Thickness	: 50 mm/55 mm
Criteria	: Stability, Integrity & With Insulation
Testing Standards	: BS 476 Part 20-22, IS 3614 Part 2
Frame Size	: 120mm × 70 mm
	/140mm × 70 mm

Construction Details

* Wooden door Frame made out of Hardwood Mirandi Teak/ Teakwood / Ivory coast Teak asper requirement.
* Door Shutter - Internal Frame made of Hardwood Teak with facing of 3 mm thick commercial ply or veneered ply on both face .
* Shutter Insulation - Sandwich type Fire rated mineral wool treated with fire retardant paint & Calcium silicate board.
* Vision Panel – 1hr/ 2hrs. Fire rated clear Glass (Optional)
* Shutter Thickness – 50/55 mm.
* Intumescent fire/smoke seal 20 X 4mm or 10 X 4mm at all three sides of door frame and shutters excepts bottom.

Recommended Hardware

1. SS Ball Bearing Hinges – SS 304 of Size 100mm x 75mm x 3mm
2. Door Closer – Fire rated
3. Tower Bolt / Flush Bolt

Optional Hardware

4. Mortise Dead Lock Set with Cylinder- complete with D Shape Pull handle for Push / Pull Operations
5. Mortise Sash Lock with Cylinder – Complete with Lever Handle for Push / Pull Operations
6. Fire Rate Panic Bar – Push Side Operation Fire rated Panic Trim – Pull Side Operation
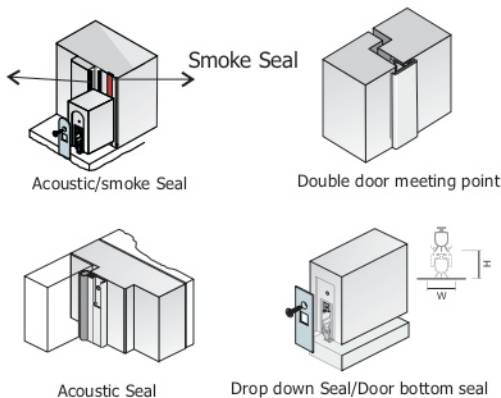
Recommended Finishes

1 Powder Coating in desired RAL Shade Code
2 Polyurethane Coating in desired RAL Shade Code
3 Selective Wood Grain Finishes available

WFD-7

WFD-8

Acoustic/smoke Seal

Smoke Seal
Double door meeting point

Acoustic Seal

Drop down Seal/Door bottom seal

Wooden Fire Rated Door Specification (Acoustic Cum Fire Doors)

Door Type	: Wooden Fire Rated Door
Fire Rating	: 60mins/ 120 mins
Shutter Thickness	: 77 mm
Criteria	: Stability, Integrity & With Insulation
Testing Standards	: BS 476 Part 20-22, IS 3614 Part 2
Frame Size	: 140 x 65mm

Construction Details

* Wooden door Frame made out of Hardwood Mirandi Teak/ Teakwood / Ivory coast Teak asper requirement.
* Door Shutter - Internal Frame made of Hardwood Teak with facing of 6 mm thick commercial ply or veneered ply on both face .
* Shutter Insulation - Sandwich type Fire rated mineral wool treated with fire retardant paint & Calcium silicate board.
* Vision Panel – 1hr/ 2hrs. Fire rated clear Glass (Optional)
* Shutter Thickness – 77 mm.
* Intumescent fire/smoke seal 20 X 4mm or 10 X 4mm at all three sides of door frame and shutters excepts bottom.

Recommended Hardware

1. SS Ball Bearing Hinges – SS 304 of Size 100mm x 75mm x 3mm
2. Door Closer – Fire rated

Optional Hardware

3. Mortise Dead Lock Set with Cylinder- complete with D Shape Pull handle for Push / Pull Operations
4. Mortise Sash Lock with Cylinder – Complete with Lever Handle for Push / Pull Operations
5. Fire Rate Panic Bar – Push Side Operation Fire rated Panic Trim – Pull Side Operation
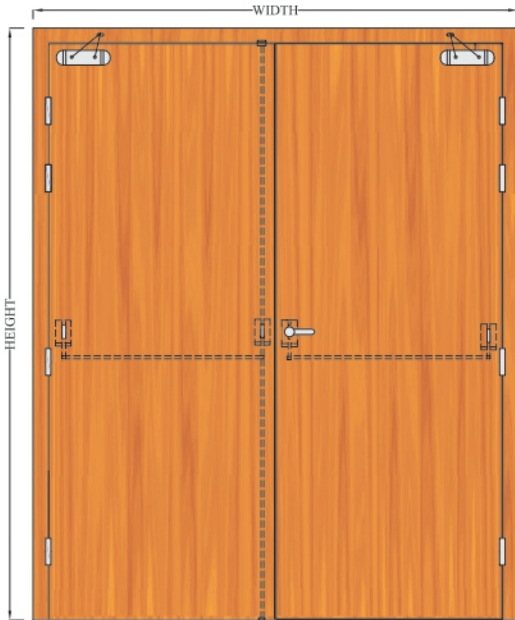
Wooden Lead Lined Door

Door Type	: Wooden Lead Lined Door
Criteria	: Nuclear/Radiation Protected
Rating	: Not Applicable
Door Thickness	: 44mm
Standards	: AERB/DRS
Application	: Radiology & Nuclear Medicine

Construction Details

* Wooden Frame Profile Design-BFPPL Hardwood Red
  Marindi/Teakwood of section 120x70 with 2mm lead
  sheet sandwiched or pressed steel door frame profile
  designe BFPPL single rebated 100x57x1.20mm G.I. Sheet.
* Hardwood Internal Timber frame work
* 2mm (±1%) lead sheet with 99% purity
* BFPPL core construction, 4mm thick with commercial ply.
* Shutter thickness with commercial ply, board & limitation
  both side - 4mm x 2mm Galvanised Steel
* Vision panel if required shall be of lead glass only.
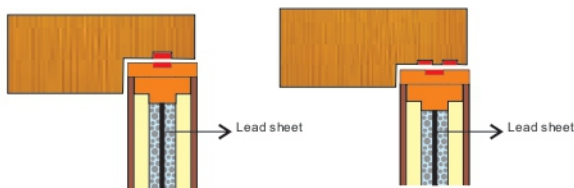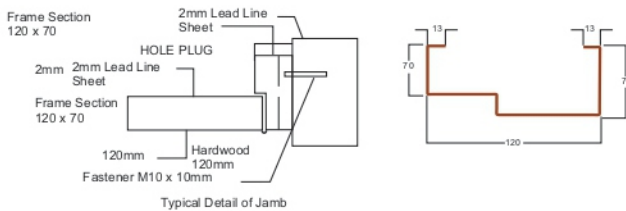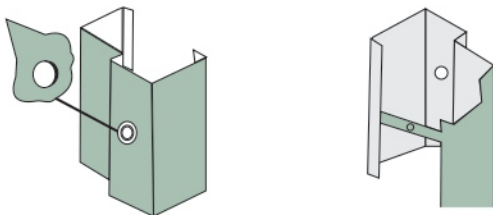
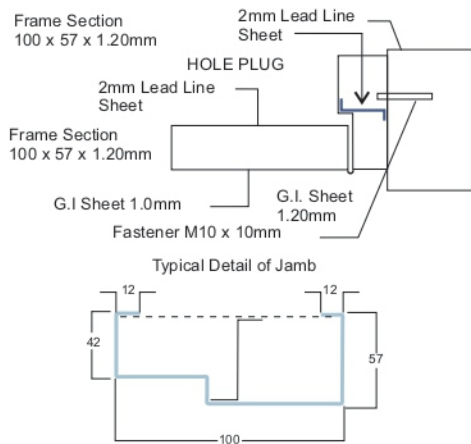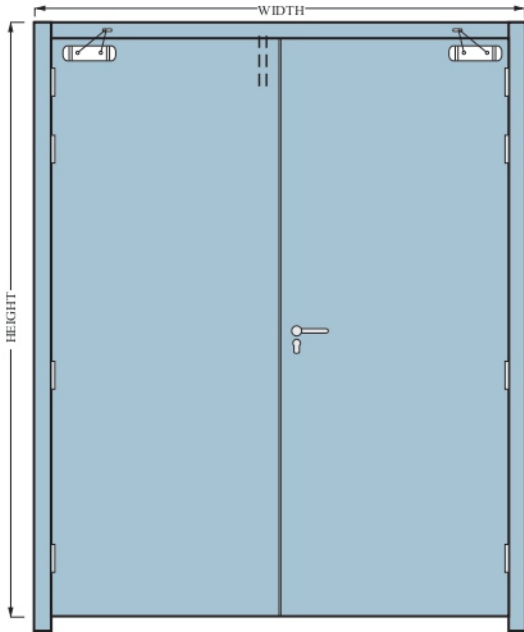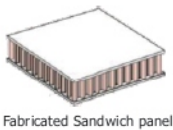Typical Detail of Jamb

Recommended Hardware

1. SS Ball Bearing Hinges – SS 304 of
    Size 100mm x 75mm x 3mm
2. Door Closer – Fire rated
3. Tower Bolt / Flush Bolt

Optional Hardware

4. Mortise Dead Lock Set with Cylinder- complete with
    D Shape Pull handle for Push / Pull Operations
5. Mortise Sash Lock with Cylinder –
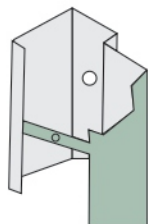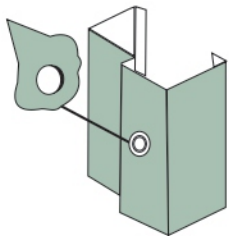   Complete with Lever Handle for Push / Pull Operations

Rockwool Insulation

Frame Section 100 x 57 x 1.20mm

2mm Lead Line Sheet

HOLE PLUG

2mm Lead Line Sheet

Frame Section 100 x 57 x 1.20mm

G.I Sheet 1.0mm

G.I. Sheet 1.20mm

Fastener M10 x 10mm

Typical Detail of Jamb

12   12

42   57

100

Frame Section

Fabricated Sandwich panel

Rockwool Insulation

Steel Lead Lined Door

Door Type	: Steel Lead Lined Door
Criteria	: Nuclear/Radiation Protected
Rating	: Not Applicable
Door Thickness	: 44mm
Standards	: AERB/DRS
Application	: Radiology & Nuclear Medicine

Construction Details

* Steel Frame Profile Design-BPFPL 100x50
* Frame Manufactured with 1.2mm Galvanized Steel
* Shutter Thickness – 44mm
* Shutter Infill – Honeycomb/Mineral wool including 2mm Lead Sheet
* Shutter Manufactured with 1mm Galvanised Steel
* Ingle Glazed Lead Glass as per requirement of size 200mmX300mm (5mm+ - 2mm)

Recommended Hardware

1. SS Ball Bearing Hinges – SS 304 of Size 100mm x 75mm x 3mm
2. Door Closer – Fire rated
3. Tower Bolt / Flush Bolt

Optional Hardware

4. Mortise Dead Lock Set with Cylinder- complete with D Shape Pull handle for Push / Pull Operations
5. Mortise Sash Lock with Cylinder – Complete with Lever Handle for Push / Pull Operations
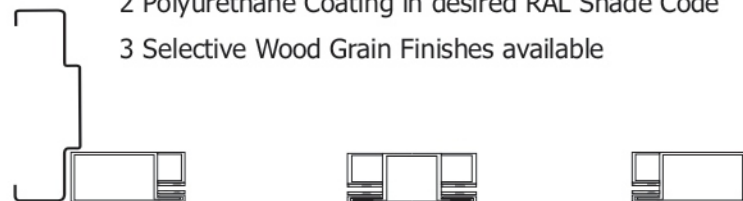
Recommended Finishes

1 Power Coating in desired RAL Shade Code
2 Polyurethane Coating in desired RAL Shade Code
3 Selective Wood Grain Finishes available
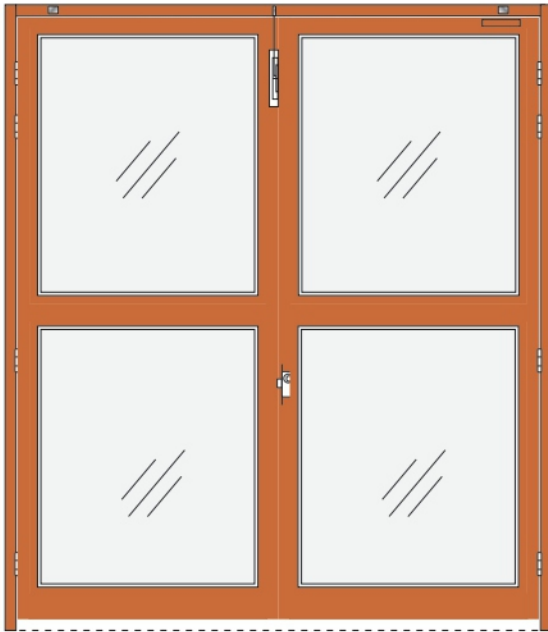
GD-1
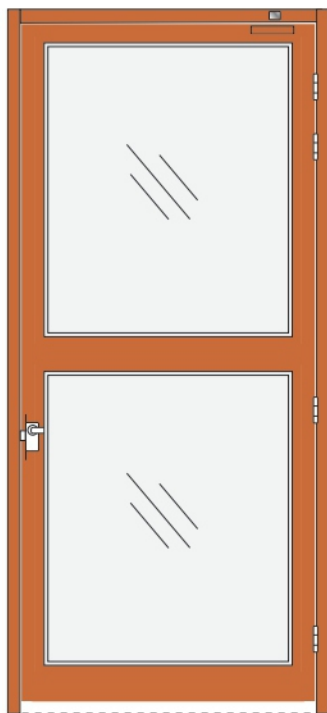
GD-2

Glazed Metal Fire Rated Door Specification

Door Type : Glazed Metal Fire Rated Door

Fire Rating : 60mins/ 120 mins

Door Frame : 143 X 57 X 1.60 mm

Shutter Thickness : 50 X 1.60 mm

Shutter Stiles : Vertical & Top Members 50 X 100 X 1.60 mm bottom members 50 X 200 X 1.60 mm

Criteria : Stability, Integrity & With Insulation Material

Testing Standards : BS 476 Part 20-22, IS 3614 Part 2

Glazings : Glass –2hrs. Fire rated clear Glass

Shutter Infill Insulation : Mineral Wool Insulation

Construction Details

* Steel Frame Profile Design

* Frame Thickness – 1.6mm Galvanised Steel

* Shutter Sheet Thickness – 1.6mm Galvanised Steel

* Glass –2hrs. Fire rated clear Glass

* Shutter Infill Insulation – Mineral Wool Insulation

Recommended Hardware

1. SS Ball Bearing Hinges – SUS 304 of Size 102mm x 89mm x 3mm

2. Door Closer – Fire rated

3. Tower Bolt / Flush Bolt

Optional Hardware

4. Mortise Dead Lock Set with Cylinder- complete with D Shape Pull handle for Push / Pull Operations

5. Mortise Sash Lock with Cylinder – Complete with Lever Handle for Push / Pull Operations

6. Fire Rate Panic Bar – Push Side Operation Fire rated Panic Trim – Pull Side Operation

Recommended Finishes

1 Powder Coating in desired RAL Shade Code

2 Polyurethane Coating in desired RAL Shade Code

3 Selective Wood Grain Finishes available

GLD-1
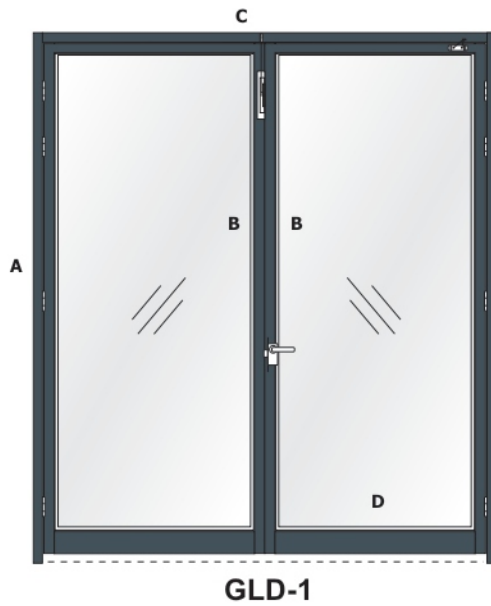
Glazed Metal Fire Rated Door with Fixed Partition

Door Type	: Glazed Metal Fire Rated Door with Fixed Partition
Fire Rating	: 60mins/ 120 mins
Shutter Thickness	: 60 mm
Criteria	: Stability, Integrity & With Insulation Material
Testing Standards	: BS 476 Part 20-22, IS 3614 Part 2

Construction Details

* Steel Frame Profile Design

* Frame Thickness – 1.6mm Galvanised Steel

* Shutter Sheet Thickness – 1.6mm Galvanised Steel

* Glass –2hrs. Fire rated clear Glass

* Shutter Infill Insulation – Mineral Wool Insulation

Recommended Hardware

1. SS Ball Bearing Hinges – SUS 304 of
   Size 102mm x 89mm x 3mm / 102mm x 76mm x 3mm

2. Door Closer – Fire rated

3. Tower / Flush Bolt

Optional Hardware

4. Mortise Dead Lock Set with Cylinder- complete with
   D Shape Pull handle for Push / Pull Operations

5. Mortise Sash Lock with Cylinder –
   Complete with Lever Handle for Push / Pull Operations

6. Fire Rate Panic Bar – Push Side Operation
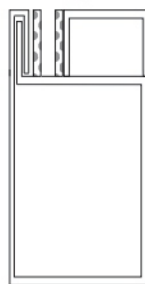   Fire rated Panic Trim – Pull Side Operation

Recommended Finishes

1 Powder Coating in desired RAL Shade Code

2 Polyurethane Coating in desired RAL Shade Code

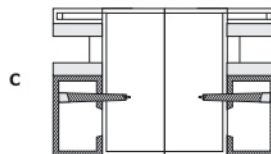3 Selective Wood Grain Finishes available
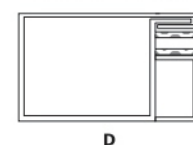

DOOR TOP MEMBERS

D

C
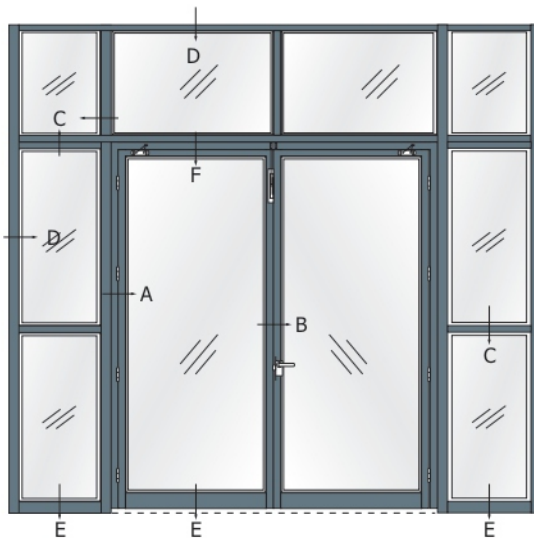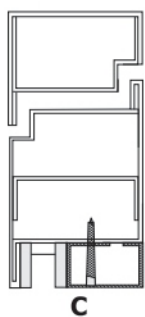
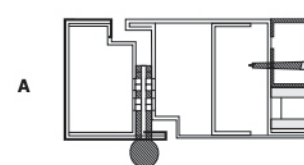DOOR BOTTOM MEMBER

FIXED PARTITION MEMBER

SIDE FIXED MEMBER

C

D

DOOR MEETING STILE

B

FRAME SECTION

A

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![HBC Fire Doors logo]
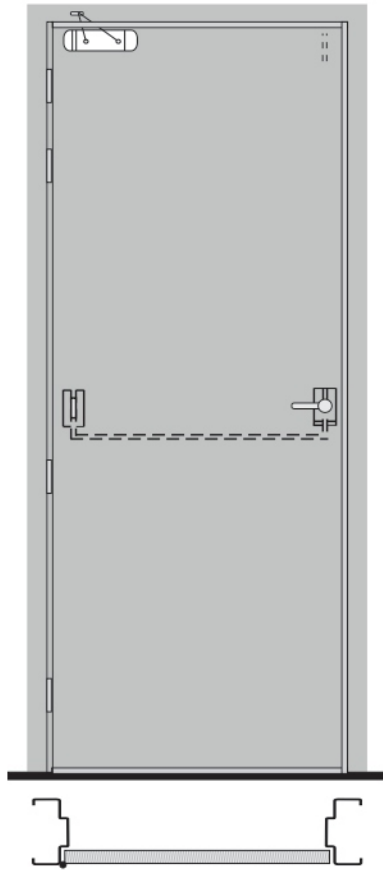
HMPS-1
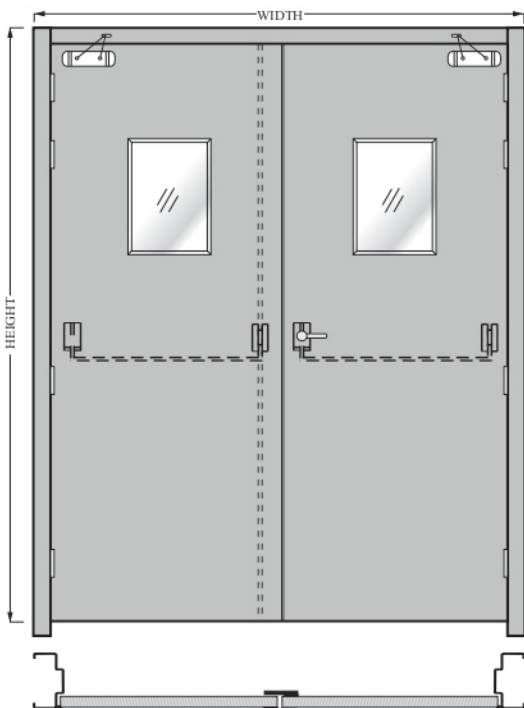
HMPS-2

HMPS Doors (Hollow Metal Pressed Steel Door)

Door Type	: HMPS Doors
Shutter Thickness	: 44/46 mm
Criteria	: Stability
Frame Size	: 100x57 Single Rebate
	143x57 Double Rebate

Construction Details

* Steel Frame Profile Design

* Frame Thickness – 1.20 mm/ 1.60 mm Hollow Metal Pressed Steel

* Shutter Sheet Thickness – 0.8 / 1.0 mm

* Shutter Thickness – 46 mm

* Finish powder coated /paint finish as per desired shade

Recommended Hardware

1. SS Ball Bearing Hinges – SS 304 of
   Size 100mm x 75mm x 3mm

2. Door Closer – Fire rated

3. Tower / Flush Bolt

4. Mortise Dead Lock Set with Cylinder- complete with
   D Shape Pull handle for Push / Pull Operations

5. Mortise Sash Lock with Cylinder –
   Complete with Lever Handle for Push / Pull Operations
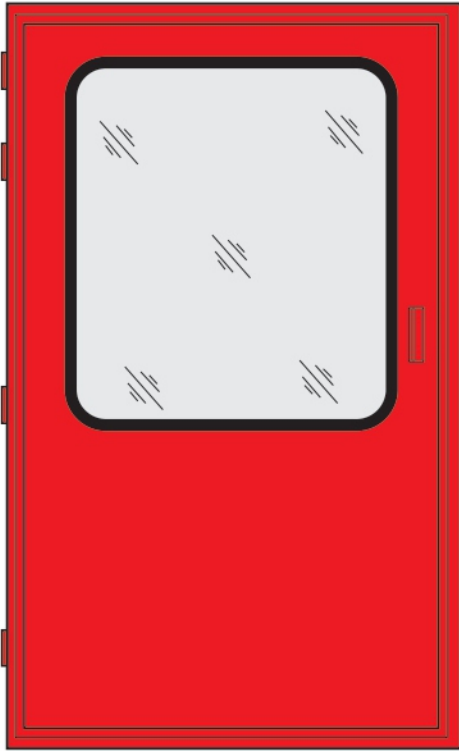
Fire Hose Cabinet Doors Specification

Door Frame   : Angle Iron 40x40x5mm

Door Shutter   : Outer Frame Angle Iron
                           25x25x3mm
                           With Single Sheeted 2mmThick

M.S. Sheet

Finish   : Powder coated (PO Red)

Vision Glass   : 4/5 mm Thick Float glass

Recommended Hardware

1. M.S Butt Hinges : 4"x2.5 mm, ISI Marked

    Concealed Handle

2. Allen Key Lock

3. Fixing - Holdfast / Dash Fastners
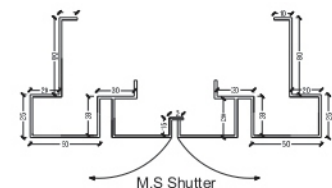
4. Door Size. : 1200X2000 mm
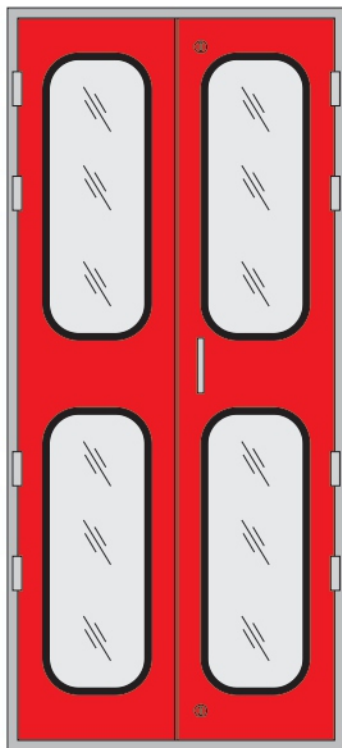
Fire Hose Cabinet Doors Specification

Door Frame   : 105x70 mm

Door Shutter   : 28 mm Thick (Single Sheeted)
                           Non Fire Rated

Fixing   : Anchor fastener M10X100 mm

Finish   : Powder coated

Vision Panel   : 415 mm Thick Float glass

Door Size.   : 1200X2000 mm

Recommended Hardware

1. M.S Butt Hinges - 4"x2.5 mm, ISIMarked

2. M.S D-Type Handle

3. Allen Key Lock

HMPS-1

HMPS-2

Wood Finish Metal Door

Door Type	: HMPS Doors
Shutter Thickness	: 44/46 mm
Criteria	: Stability
Frame Size	: 100x57 Single Rebate
	143x57 Double Rebate

Construction Details

* Steel Frame Profile Design

* Frame Thickness – 1.20 mm/ 1.60 mm Hollow Metal Pressed Steel

* Shutter Sheet Thickness – 0.8 / 1.0 mm
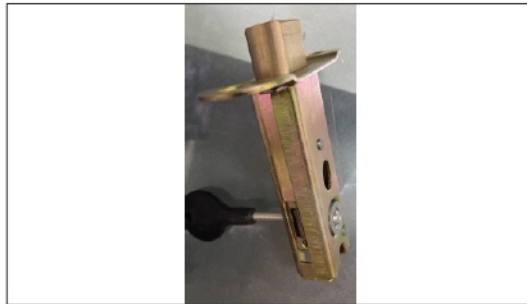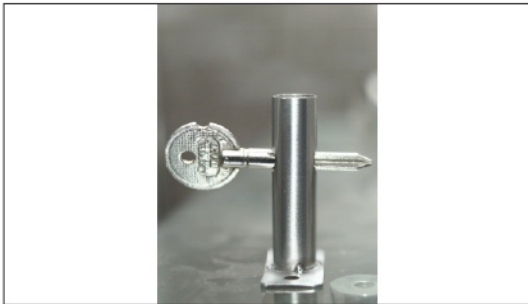
* Shutter Thickness – 46 mm

Recommended Hardware

1. SS Ball Bearing Hinges – SS 304 of
   Size 100mm x 75mm x 3mm

2. Door Closer – Fire rated

3. Tower / Flush Bolt

4. Mortise Dead Lock Set with Cylinder- complete with
   D Shape Pull handle for Push / Pull Operations

5. Mortise Sash Lock with Cylinder –
   Complete with Lever Handle for Push / Pull Operations
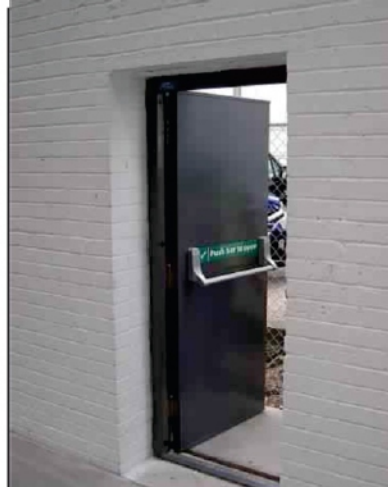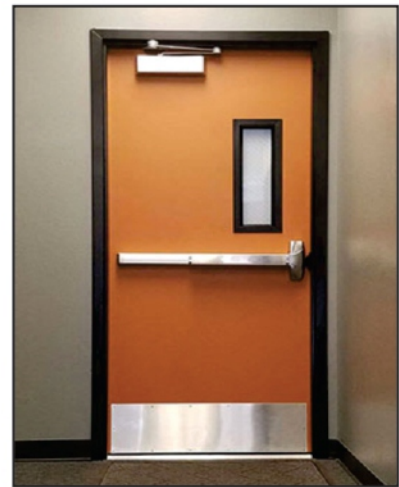
Recommended Finish

1. Wood Grain Finish

HARDWARE

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