



# MANUAL DOORS FOR RAILWAYS



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Plot No. 94, Sector-59 HSIIDC  
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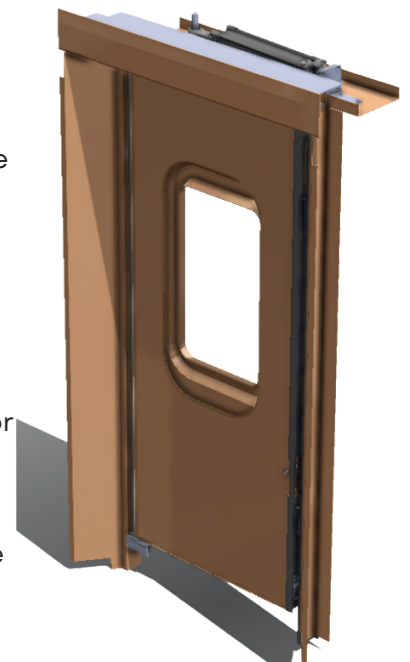
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# Entrance Door

## DESCRIPTION:

- Door panels are constructed using a robust combination of stainless steel, fire-retardant foam, Fiber reinforced plastic, clear transparent polycarbonate sheet, and toughened glass infused with Krypton and Argon gases to enhance thermal insulation and minimise noise transmission.
- Modular design facilitates hassle-free installation and ease of maintenance.
- The lower mounting features a thrust bearing assembly, where the entire door weight (60–70 kg) is supported for smooth, long-lasting operation.
- The top guide pin is fitted with a ball bearing to ensure frictionless, noise-free movement.
- Specially profiled high-temperature-resistant rubber gaskets are used to ensure effective sealing against dust, water, and noise.



## ADVANTAGES:

- Painted stainless steel components offer superior corrosion resistance and extended operational life.
- Designed for low-cost, minimal maintenance over a long life cycle.



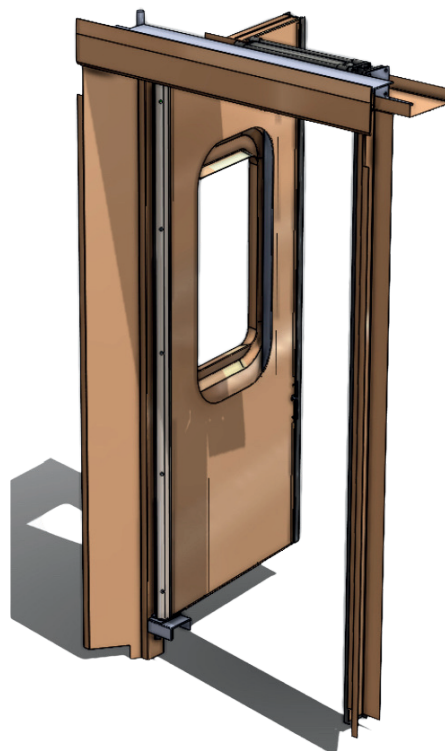


## TECHNICAL DATA:

- Aperture Width: 825–925 mm
- Weight: 60–70 kg
- Maintenance Interval: Every 50,000 cycles or 3 months

## SAFETY FEATURES:

- Toughened safety glass in the panels to prevent shattering.
- Krypton/Argon-filled cavity between the glass and polycarbonate sheet for improved thermal insulation and noise reduction.
- Fire-retardant foam core acts as a thermal barrier and fire shield.
- Fully compliant with EN50155 railway equipment standards



# DOUBLE PANEL SLIDING DOOR



## DESCRIPTION:

- Door panels are constructed using a robust combination of stainless steel, fire-retardant foam, and toughened safety glass, offering superior thermal insulation and noise reduction.
- The door opens manually and closes smoothly using elastic spring force, assisted by a pneumatic cylinder, ensuring a jerk-free and silent motion.
- Doors can be securely locked in both open and closed positions.
- The sliding mechanism uses a recirculating ball bearing system for consistent, noise-free operation.
- Specially profiled high and low temperature resistant rubber gaskets provide optimal sealing against dust, noise, and environmental ingress.





## ADVANTAGES:

- All stainless steel parts offer superior corrosion resistance and a longer service life.
- Designed for low-cost maintenance, enhancing lifecycle efficiency and minimizing downtime

## TECHNICAL DATA:

- Aperture Width: 800 mm
- Maintenance Interval: Every 50,000 cycles or 3 months
- Opening Force: 50–60 N
- Closing Mechanism: Elastic spring-assisted soft closing, regulated by a Ø25 mm pencil-type pneumatic cylinder

## SAFETY FEATURES:

- Toughened safety glass prevents shattering upon impact.
- Fire-retardant foam core insulates against extreme temperatures and restricts flame ingress.
- Compliant with EN50155 railway standards.
- Equipped with an automatic safety locking system:

A lead-bismuth alloy-packed stainless steel pin assembly melts at 90–110°C, automatically locking the door to prevent forced opening during high-temperature incidents.

A fire barrier mechanism activates at 80°C, expanding to seal all air passages and contain smoke, flames, and toxic gases.

**\*NOTE:** The development of a plug door for the metro is currently underway\*



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