



SLIDING DOORS



Signum Sliding Metal Doors

Signum manufacturers Sliding Metal Door Systems with a variety of configurations to suit customer requirements. In several applications where it is not possible to use side-hung type or vertically closing door systems, either due to space restrictions, special physical constraints, security reasons or even aesthetics, Signum Sliding Metal Door Systems are the preferred choice.

Signum Sliding Doors can be either top-hung or bottom rolling with several panel configurations such as uni-parting, bi-parting, multi-leaf parting etc. as per customer choice. Should fire safety also be a requirement, we have our Sliding Door System tested upto 120 Minutes as per national and international standards.

Our Sliding Doors have been tested for compliance with industry leading standards and are available in ready to install form. The door assembly as well as tracks, trolleys etc. are prefabricated as per required dimensions and factory finished. Only installation work is to be done at site. Several accessories such as electric motors, weather guards, sensor beams are available for our doors

Features

- *Top-hung or bottom rolling type*
- *Uni-parting/ Bi-parting/ Multi-leaf parting*
- *Robust construction using reinforced steel framework*
- *Special design for Fire Rating upto 120 Minutes*
- *Designed to operate in extreme wind conditions*
- *Integrated Electrical drive system for operational ease if desired*
- *Built-in Wicket Door for pedestrian access*
- *Vision Panels for light and security*
- *Tracks, trolleys, wheels included and supplied with door*
- *Available in a variety of colours as per choice*
- *Fully customizable to meet special conditions*



120 Minute Fire Rated Sliding Door with Emergency Exit Wicket Door with Vision Panel and Panic Device

Performance Specifications

Signum Fire Rated Sliding Door System has been tested for compliance with many national and internationally approved standards

IS 3614 (Part 2): Metallic and Non-Metallic Fire Check Doors - Resistance Test and Performance Criteria

BS 476 (Part 22): Fire Resistance Test to Building Material

Certifications & Approvals

Signum Fire Rated Sliding Door System has been tested and certified by several internationally accredited third-party organizations approved to conduct such tests under Government of India authority in India

CBRI: Central Building Research Institute, Rourkee

CPRI: Central Power Research Institute - Thermal Research Center, Koradi

Approved Type Test Certificates for all performance standards are provided with all projects executed.

We have our own in-house Fire Testing Laboratory constructed as per international standards for new R&D activities.

Special fire tests for project-specific special/ unique conditions can also be undertaken and certified after successful testing as per relevant standards.

Construction

Signum Sliding door panels are fabricated as reinforced frame-work from rectangular/ square steel structural hollow sections with profiled steel sheets welded to the framework from both sides. Arrangements for fixing of guides, drive wheels etc. are made on top/ bottom of the panel accordingly with supports extended from the reinforced framework.

All other attachments and extensions such as flame baffles, channels, tracks, trolleys, buffers etc. are constructed from high quality materials and supplied along with the main sliding panel.

Wicket doors can be provided within the sliding panels to ensure pedestrian traffic movement in case the main doors are in closed position.

Accessories such as weather guards, photo-sensors, sound alarms, infra-red cross beams can be installed with the motorized sliding door system.

Technical Characteristics

| | |
|-------------------------------|---|
| Material | Cold Rolled, Galvanized Steel |
| Sheet Thickness | 0.9 mm (22 guage), 1.0 mm (20 guage), 1.2 mm (18 guage) |
| Design | Corrugated Trapezoidal |
| Fire Rating | 60 and 120 Minutes Fire Rated |
| Fire Rating Testing Standards | IS 3614 Part 2, BS 476 Part 22 |
| Auto-closing Mechanism | Fire Rated Sliding Doors are provided with fusible link system. Upon detecting a temperature of 72 °C, the fusible link releases the counter weight allowing the sliding door to close by gravity |
| Wind Resistance | Special design for high wind loads, available as per request |
| Vision Panel | Available as per request, including for Fire Resistance |
| Wicket Door | Available as per request |
| Motorization Details | Single-Phase (1P) 230V or Three-Phase (3P) 440V TEFC Motor, Reduction Gear-drive, with Integrated Control Panel consisting of 3 Push-buttons: Forward, Reverse and Stop, with limit switches |
| Finish | Choose from over 2000 colour shades from the RAL palette. Zinc rich epoxy primer (35 microns) followed by Polyurethane (PU) Paint (35 microns) |
| Accessories | IR Remote control, IR Cross-beams for obstruction safety |

Auto-Closing Mechanism in case of Fire

Our superior Fire Rated Sliding Doors are designed to operate independently in case of fires, with resistance upto 120 Minutes, which automatically close in case of fire with any external system integration.

Special heat-detecting fusible links are attached in a unique manner, which upon detecting a temperature of 72 °C releases the counter-weight allowing the sliding door to close by gravity, without any external actuators.

Quality Assurance

Signum is certified for its quality systems according to ISO 9001:2015 standards by TUV India Pvt. Ltd., a member of internationally known TUV NORD GROUP.

Quality Assurance Plan (QAP) and Manufacturer's Certificate of Conformity/ Test Certificate (MTC) for Signum Fire Retardant Cable Coatings is available upon request.

Finishing

Signum Sliding Metal Doors are factory finished using anti-corrosive zinc rich epoxy primer and top coat of polyurethane (PU) paint with any shade out of the vast RAL colour palette as per choice.

RAL is one of the most internationally recognized colour standards in the industry, trade, architecture and design.

Recommended Application Areas

Residences, Commercial Spaces, IT Parks
Hospitals, Hotels
Multiplexes, Banks, Department Stores
Airports, Metro Railway Stations
Thermal, Nuclear, Hydro Power Projects
Govt. buildings - Embassies, Administrative offices
Military Installations - Hangars, Shipyards, Administrative offices
Industries - Cement factories, Godowns, other factories
Steel Plants, Coal Mines, Paper & Saw Mills, Petrochemical Plants,
Explosive Manufacturing units

Other Products by Signum

Steel & Timber Flush Doors
Timber Carved Designer Series Doors
Steel & Timber Fire Doors
Steel & Timber Acoustic Doors - General and Fire Rated
Metal Sliding Doors - General and Fire Rated
Rolling Metal Shutters - General and Fire Rated
Architectural Partitions
Fire Stop Mortar Barrier



SIGNUM

TURNKEY **PASSIVE FIRE PROTECTION** SYSTEMS

Manufactured by: -

Signum Fire Protection India Pvt. Ltd.

TURNKEY PASSIVE FIRE PROTECTION SOLUTIONS

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An ISO 9001: 2015 Company



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