FBMECASYSTEM
ACCESS CONTROL & SECURITY SYSTEMS

Couloirs rapides / Speed Gate

STARGATE

FICHE TECHNIQUE



FIABLE. ÉLÉGANT. SÉCURISÉ.

RELIABLE SECURITY

OPTIMISED PEDESTRIAN FLOW

ADVANCED TECHNOLOGY

DESIGN & DURABILITY

STARGATE

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Speed Gate



General Overview

StarGate is a full-height automatic security gate equipped with servo-controlled glass leaves. It combines physical access control with the efficient pedestrian flow of a speed gate. Its various passage widths accommodate pedestrians, people with reduced mobility, luggage and trolleys.

Multi-technology detection helps monitor intrusion attempts, tailgating and movement in the opposite direction. The powder-coated steel structure integrates seamlessly into a wide range of architectural environments.

Points forts

Full-Height Glass Gate
Tempered glass leaves up to 2,040 mm high.

Multi-Technology Detection
3D camera, infrared sensors, radar and vertical vision sensor.

Adjustable Throughput
Up to 50 people/min; 20–35 people/min in controlled access mode.

Adaptable Passage Width
Passage widths of 600, 900 and 1,200 mm.

User Safety
Anti-pinch protection, automatic reversal upon obstacle detection and emergency opening

Integration & Options
RS485, dry contacts, RFID, QR codes, biometric identification and AIRLOCK

Applications

Offices · Administrative Buildings · Reception Areas · Museums · Cultural Centres · Universities · Hotels · Conference Centres · Data Centres · Industrial Facilities · Laboratories · Exhibition Centres · Libraries · Areas Requiring Enhanced Access Control







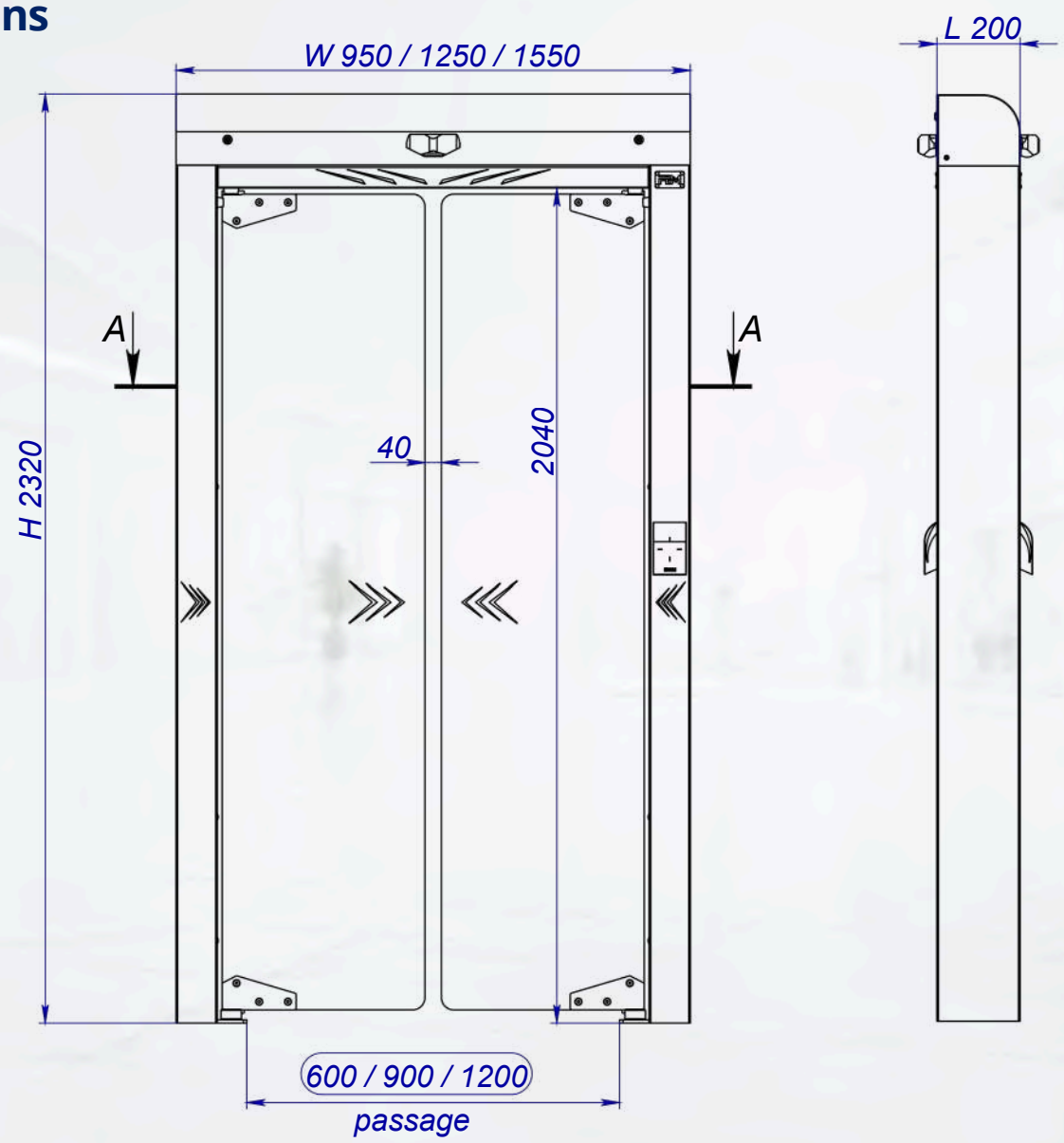
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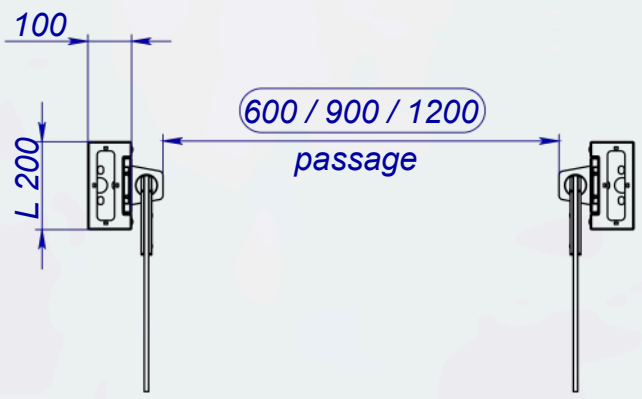
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Product Dimensions



A-A
(1 : 15)



Clear Passage	Overall Width (W)	Overall Depth (L)	Overall Height (H)
600 mm	950 mm	200 mm	2 320 mm
900 mm	1 250 mm	200 mm	2 320 mm
1 200 mm	1 550 mm	200 mm	2 320 mm

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Product Specifications

SPECIFICATIONS

Model	StarGate 600 / 900 / 1200
Type	Speed Gate
Body Material	AISI 304 Stainless Steel or Powder-Coated S235 Steel, RAL Colour of Choice
Gate Leaf Material	SECURIT Tempered Glass / Transparent PMMA (Plexiglas) / Metal Bar Grille
Unit Dimensions	H 2,320 × D 200 × W 950–1,550 mm
Clear Passage Width	600–1,200 mm, Depending on Configuration
Drive System	Horizontal Servo Drive, BLDC LongLife® Motor
Opening / Closing Time	Adjustable from 0.7 to 1.5 s
Passage Direction	Unidirectional or Bidirectional
Throughput	Up to 50 People/min; 20–35 People/min in Controlled Access Mode
Weight	140 / 160 / 180 kg
Mechanical Service Life	Up to 30 Million Cycles
Power Supply	220/110 V AC, 50/60 Hz
Operating Voltage	24 V DC
Power Consumption	55 W
Ingress Protection Rating	IP4X — Indoor Installation
Compatibility	Access Control and Security Management Systems
Communication Interfaces	RS485, Dry Contacts, Fire Alarm Input
LED Indicators	RGB LED Display Panel and RGB Light Strip
Security Functions	Intrusion Detection, Anti-Tailgating, Reverse-Direction Detection
Emergency Mode	Automatic Opening Upon Mains Power Failure or Fire Alarm
Noise Level	≤ 65 dB
Remote Control	Wired Control Panel or Optional Wi-Fi Control
Integration Options	RFID, 3D Camera, QR Codes, Biometrics, Facial Recognition, Passage Counting

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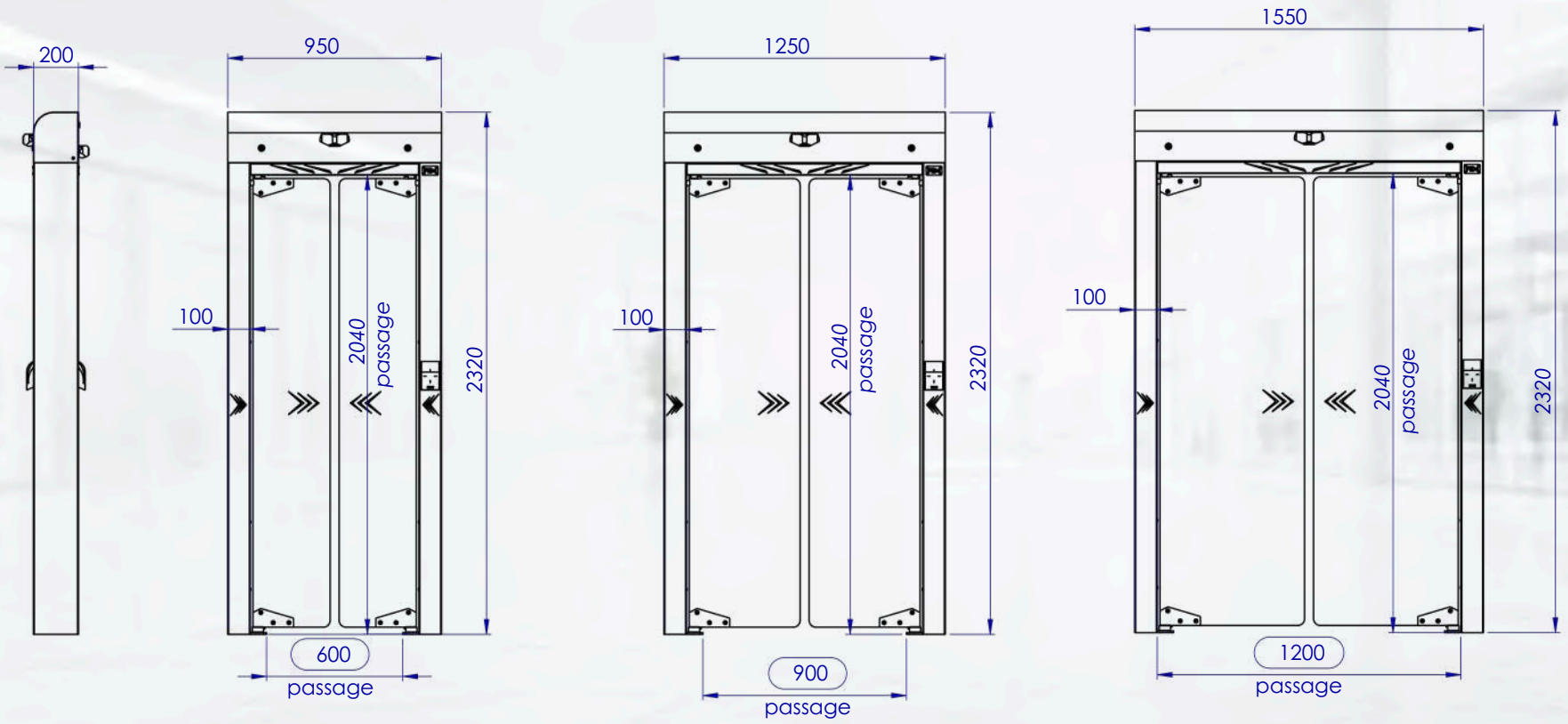
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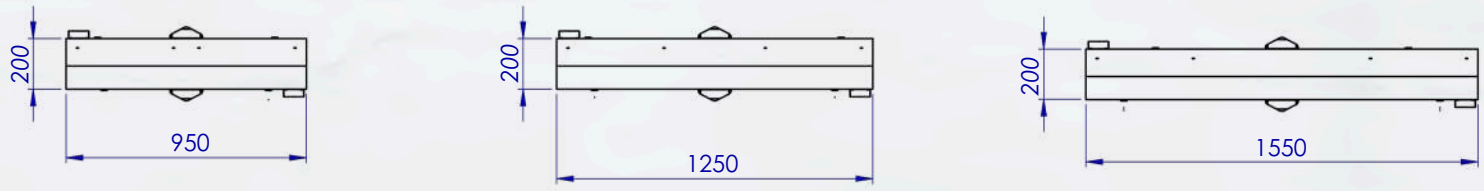
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Product References

StarGate is available in three passage widths and several security configurations. The 12 product references listed below correspond to the 2026 commercial catalogue.





Passage	Standard	AIRLOCK	P6B	P6B + AIRLOCK
600 mm	StarGate 600-2S	StarGate 600-2S/AirLock	SG600-2SP6B	SG600-2SP6B/AirLock
900 mm	StarGate 900-2S	StarGate 900-2S/AirLock	SG900-2SP6B	SG900-2SP6B/AirLock
1 200 mm	StarGate 1200-2S	StarGate 1200-2S/AirLock	SG1200-2SP6B	SG1200-2SP6B/AirLock

Options & Customisations

- P6B burglar-resistant glazing or BR2 NS bullet-resistant glazing (optional).
- Metal bar grille configuration for perimeter access applications.
- Partial opening limited to 600 mm for the 900 and 1,200 mm models.
- Security lock and choice of RAL colour.
- Mobile platform for installation without cutting channels into the floor.
- Slim side partitions for installations without rigid supporting walls.

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Available Configurations

StarGate is available in two main configurations for indoor applications: glazed leaves or metal bar grilles.
For outdoor and perimeter access applications, FBMecasystem also offers the TGPMR DV range.



Glass leaves

Standard Configuration

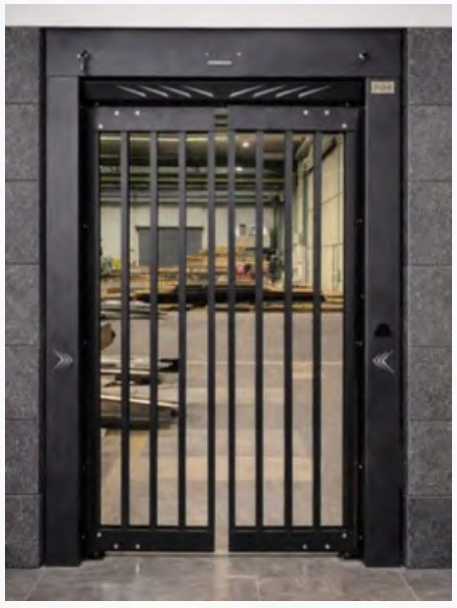
The StarGate with glass leaves is the standard configuration for indoor applications.
It combines security, transparency, and seamless architectural integration.

Suitable for
Indoor

Standard Equipment
10-12 mm tempered glass

Key Benefits
Visibility, elegant design and user comfort

Applications
Offices, reception areas, museums and universities



Metal Bar Grille

Optional Configuration

Metal bar grilles replace the glazed leaves in applications where structural robustness and mechanical resistance are the main priorities.

Suitable for
Indoor

Optional Equipment
Metal bar grille leaves

Key Benefits
Robustness and mechanical resistance

Applications
Warehouses, workshops, logistics facilities and technical rooms



TGPMR DV900 / DV600 / DV1200

Outdoor Configuration

The TGPMR DV900 is a full-height automatic security gate designed for outdoor and perimeter access applications, particularly when combined with FBMecasystem access control equipment.

Suitable for
Outdoor

Ingress Protection Rating
IP65

Key Benefits
Robust and stable construction

Applications
Perimeter fencing, industrial facilities and secure areas

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Operating Modes

- **Normally Open Mode:** free passage, with throughput of up to 50 people per minute.
- **Normally Closed Mode:** access authorisation required for each passage; throughput of 20–35 people/min.
- **Direction :** configurable unidirectional or bidirectional operation.
- **Settings :** adjustable opening/closing time from 0.5 to 1.5 seconds; default timeout of 5 seconds.
- **Controle :** adjustable opening/closing time from 0.5 to 1.5 seconds; default timeout of 5 seconds.
- **Evacuation :** automatic gate opening upon power failure or fire alarm.

Convert StarGate into an AIRLOCK Security Vestibule

The AIRLOCK controller interlocks 2–4 doors (StarGate, TGPMR DV900 or Turn Glass), ensuring only one can be open at a time. It supports single-person airlocks, anti-return control and operator-authorised access sequences.

Entry › **Waiting** › **Validation** › **Exit**



AIRLOCK Management & Monitoring

1. **Interlocking**

Coordinated gate control with sequential opening.

2. **Security Modes**

Standard airlock, reverse-direction control, operator validation and containment modes.

3. **Centralised Alarms**

Tailgating, wrong-way passage, forced entry, prolonged presence or unattended object detection.

4. **Monitoring**

Status and alarm reporting to the security control room and the FBM Control Touch operator panel.

5. **Emergency Operation**

Fire alarm system integration, centralised controls and emergency opening.

Security Principle

When one gate within the AIRLOCK is open, all other gates remain locked. Access validation and alarms are managed by the AIRLOCK control logic according to the security sequence defined for the site.

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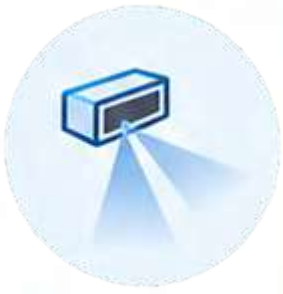
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Detection Technologies

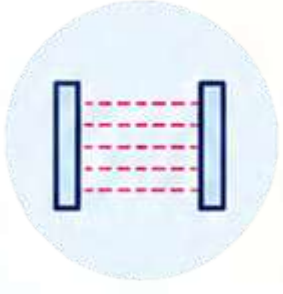
StarGate combines four complementary detection technologies to monitor the direction of movement, supervise the passage area and protect users.
Depending on the configuration, data from the different sensors are cross-checked to identify abnormal situations.



01

INTELLIGENT 3D CAMERA

Performs volumetric analysis of the passage area, distinguishes closely spaced individuals and detects tailgating attempts.



02

6 PAIRS OF INFRARED BEAMS

Track the user's position and direction of movement, and confirm completion of passage.



03

MICROWAVE RADAR

Monitors presence on both sides of the gate leaves to anticipate approaching and departing users.



04

VERTICAL VISION SENSOR

Monitors the gate leaf movement area, supports anti-pinch protection and contributes to passage counting.

Sensor Specifications

3D Camera

Field of View	150° diagonal (H 120° × V 61°)
Response Time	< 100 ms
Simultaneous Targets	Up to 10
Detection Range	2 à 5 m

Vertical Vision Sensor

Image Sensor	1/3-inch CMOS, 2 Megapixels
Detection Area	Up to 1.5 × 0.9 m
Installation Height	Up to 2,3 m
Paramétrage	iOS / Android Application

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Security & Passage Management

StarGate combines passage monitoring, user protection and security controls to adapt its operation to the requirements of each site.

- **Anti-Tailgating** Single-person passage monitoring and detection of closely spaced individuals.
- **Reverse-Direction Detection** Detection of movement against the authorised passage direction.
- **Intrusion Detection** Alarm triggered by an unauthorised passage attempt.
- **Anti-Pinch Protection** Safety sensors and automatic reversal of gate leaf movement upon obstacle detection.
- **Automatic Reset** Gate relocking if no passage occurs within the specified timeout (5 seconds by default).
- **Emergency Evacuation** Automatic opening of the gate leaves upon mains power failure or a fire alarm signal.

System Responses

Detected Situation	StarGate Response
Tailgating	Alarm, gate closure and person tracking
Wrong-Way Passage	Warning and gate closure
Unauthorised Entry	Audible and visual alarm
Obstruction Between Gate Leaves	Anti-pinch protection and movement reversal
Unused Access Authorisation	Automatic relocking after the configured timeou

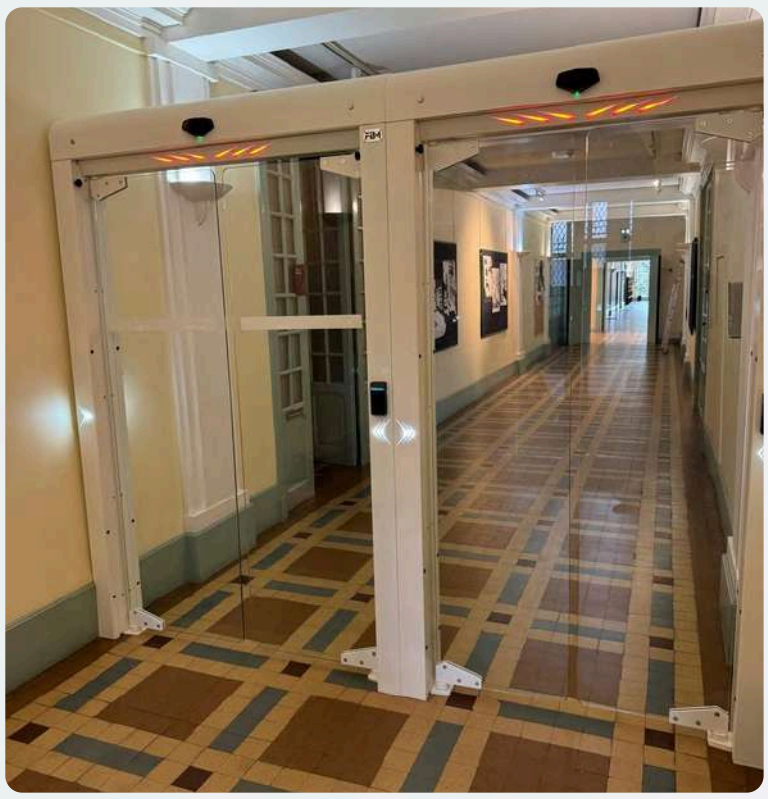


Installation Configurations & Adaptations

StarGate can be installed in different configurations to accommodate site-specific requirements:

- **In Front of an Existing Doorway:** Installation directly in front of an existing opening.
- **Between Two Walls:** Integration between rigid walls or structural partitions.
- **On a Platform with Stabilising Supports:** Installation without cutting channels into the floor, with integrated cable routing.

Additional Adaptations: *Side partitions may be required where rigid walls are not available. Mounting arrangements and electrical connections can be adapted to site-specific constraints.*



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Access Control & Integration

StarGate can be connected to access control and security management systems.
It is equipped with RS485 interfaces, dry contacts and a fire alarm input.
Card readers and other identification devices can be integrated during manufacturing according to project requirements.

Available Equipment & Functions

- RFID card readers and QR code readers;
- Biometric readers and facial recognition systems;
- Access authorisation management and passage counting.

Factory Integration & Connections

Card readers and special glazing can be integrated and tested at the factory before dispatch. Cable routing and connection requirements are defined according to the selected configuration and project-specific constraints.

Communication, Indicators & Control

RS485

Transmission of status information, operating data and alarms to the security management system.

CONTACTS SECS

External access control commands and signal exchange with on-site equipment.

LED RGB

RGB light strip and illuminated pictograms to guide users and indicate operating status.

Design & Customisation

Structure & Finishes

- Powder-coated steel structure, available in a selected RAL colour.
- Brushed or polished AISI 304 stainless steel (optional).
- AISI 316 stainless steel (optional).
- Various colours and finishes available to meet project requirements.

Gate Leaves & Glazing

- Standard: transparent tempered glass (thickness to be confirmed).
- Optional: P6B burglar-resistant glazing or BR2 NS bullet-resistant glazing, subject to technical approval.

Customisation

- OEM branding and customised appearance.
- Custom positioning of identification and access control devices according to project requirements.

Services & Support

Depending on project requirements, FBMecasystem provides assistance with equipment installation, commissioning and maintenance.



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Nous contacter
Contact us

Offices, industrial sites, distributors and partners for your access control projects.



16 ZA Croix Saint Mathieu

28320 GALLARDON, FRANCE

+33(0)1 89 16 71 34

fbmecasystem.com

COMMERCIAL@FBMECASYSTEM.COM

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