

EFAFLEX - EFA-SST® - High-Speed Spiral Doors

Product Technical Statement: 114065



The EFA-SST® High-Speed Spiral Door by EFAFLEX represents a new generation of industrial doors.

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Level of assurance needed to demonstrate NZ Building Code Compliance

Supporting documentation should include self-assessment and technical information by manufacturer



EFAFLEX - confirms that this minimum level of assurance has been met or exceeded by the following:

ift-Product Passport

[Industrial doors and gates according to EN 13241 - 16-002366-PR01 \(PP-D01-0203040\)](#)



The following information has been provided by EFAFLEX - demonstrating how this product complies with the [Building Product Information Requirements](#).

Technical Statement

Product Class

CLASS 2

Product Description

The EFA-SST® High-Speed Spiral Door by EFAFLEX combines cutting-edge performance, durability, and energy efficiency, making it the perfect solution for demanding industrial and commercial applications. Designed for rapid operation, it optimizes workflows, maintains controlled environments, and enhances energy savings.

Constructed with precision-engineered materials, the EFA-SST® delivers quiet, reliable performance even under continuous heavy use. Virtually maintenance-free, the EFA-SST® features a robust spiral mechanism that ensures smooth, high-speed operation without compromising stability or safety.

Customizable in various sizes, finishes, and security options, it adapts effortlessly to a wide range of settings, including warehouses, parking systems, and temperature-sensitive environments. Integrated safety systems protect personnel and equipment, ensuring secure and efficient access in high-traffic areas. With superior insulation options available, such as the ISO-60 model, and reinforced designs like the Secure RC 3 and RC 4 models, the EFA-SST® meets the highest standards for energy efficiency, noise reduction, and security.

Built for endurance and tailored for performance, the EFA-SST® is a versatile, high-quality solution for modern industrial and commercial needs.

Scope of use

The EFA-SST® High-Speed Spiral Doors by EFAFLEX are engineered for high-traffic, energy-efficient, and security-focused environments across industrial and commercial applications. With various models tailored to meet specific needs, the SST series offers reliable solutions for warehouses, logistics centers, cleanrooms, parking systems, and more.

- ISO Series: Advanced thermal insulation and sealing, ideal for temperature-controlled spaces like food processing and storage facilities.
- PS Series: Designed for parking systems, delivering rapid, reliable access in commercial and residential parking structures.
- Secure Series: Reinforced RC 3 and RC 4 models ensure enhanced security for sensitive applications such as laboratories, data centers, and high-value storage.
- Efficient Series: Combines speed and energy efficiency, perfect for high-traffic environments such as manufacturing and distribution facilities.
- EX Series: Offers safety in explosion-prone environments, suitable for petrochemical, chemical, and hazardous material handling sites.
- MS Series: Built for heavy-duty operations, providing strength and durability for manufacturing and warehousing sectors.

The EFA-SST® series is customizable in size, finish, and features, meeting the specific demands of diverse applications while ensuring compliance with safety, durability, and energy efficiency standards.

New Zealand Building Code (NZBC)

The product will, if employed in accordance with the supplier's installation and maintenance requirements, assist with meeting the following provisions of the building code:

- **Clause B1 Structure:** Performance B1.3.1, B1.3.2, B1.3.3(a), B1.3.3(b), B1.3.3(h)



masterspec partner

Company Contact Details



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- EN 13241+A2
 - Designed as robust, industrial-grade doors, the Efaflex SST models are built to retain structural integrity under demanding, high-usage conditions.
 - Engineered to accommodate operational loads and withstand environmental stresses, ensuring dependable performance.
 - Self-weight considerations are incorporated, minimizing impact on building structures and supporting safe installation.
 - Designed to endure frequent usage, the doors meet the demands of high-traffic settings, maintaining stability throughout regular operations.
 - Outdoor models are wind-resistant, developed to align with wind load standards for exposed applications, contributing to resilience in various environmental conditions.
 - Wind Load: Rated up to class 4 for both positive and negative wind pressure.
- **Clause B2 Durability:** Performance B2.3.1(b)
- Durability is verified for over 1,010,000 cycles, meeting NZBC requirements for a 15-year lifespan under standard operational conditions.
 - Corrosion Resistance: Additional coatings and stainless-steel options, especially for wet areas, meet durability expectations in challenging environments.

Note: For specialised environments, such as cold chain storage, consultation with Efaflex is recommended to ensure optimal performance and suitability.

- **Clause C3 Fire affecting areas beyond the fire source:** Performance C3.7(a)
- EN 13241+A2
 - In alignment with NZBC Clause C3, the doors are manufactured using materials with certified fire performance as specified in Table 4.3 of Acceptable Solution C/AS2.
- **Clause D1 Access routes:** Performance D1.3.1(b), D1.3.3(a), D1.3.3(n)
- Designed to conform with AS/NZS 1428 for accessibility, the doors provide safe entry, ample activity space, and reliable automatic operation to support building accessibility requirements.
 - DIN EN 12604: Testing for safety during manual operation under power failure conditions (e.g., emergency opening via tension springs or pull cords).
 - EN 12453 Compliance for Safety: Equipped with safety contact edges or crash-resistant mechanisms, which ensures safe access and automated operation, especially for emergency situations

Where specified, UPS backup systems can be integrated to ensure continuous operation during power interruptions, aligning with D1.3.1(b), D1.3.3(a), and D1.3.3(n) requirements.

- **Clause E2 External moisture:** Performance E2.3.2, E2.3.3
- Equipped with premium seals and moisture-resistant materials, Efaflex SST doors are designed to align with E2.3.2 and E2.3.3, offering protection from moisture intrusion.
 - The perimeter seals help prevent water and moisture penetration, safeguarding interior spaces and limiting air infiltration, particularly beneficial for controlled environments.
 - Watertightness ratings up to class 3
 - Constructed with materials that resist moisture absorption, the doors minimize deterioration from water exposure, reducing maintenance needs and prolonging durability in humid or wet conditions.
- **Clause G4 Ventilation:** Performance G4.3.2
- Supporting G4.3.2, the doors aid in controlling airflow, promoting efficient ventilation through rapid open-and-close capabilities.
 - This functionality minimizes air exchange times, helping maintain indoor air quality and reducing temperature loss, critical in controlled environments.
 - Air permeability ratings up to class 4
 - The doors can be integrated with mechanical air-handling systems, ensuring effective airflow management by synchronizing operation with ventilation demands.
- **Clause H1 Energy efficiency :** Performance H1.3.1(a), H1.3.1(b), H1.3.6(a)
- Models conform with H1.3.1(a), H1.3.1(b), and H1.3.6(a) by limiting uncontrolled airflow and enhancing thermal resistance, contributing to energy efficiency.
 - Thermal transmittance values as low as 0.29 W/(m²K)
 - The rapid operation minimises the duration the doors remain open, reducing conditioned air loss and maintaining a consistent internal climate.
 - These energy-saving designs support building performance by optimising heating and cooling efficiency, contributing to reduced operational costs over time.

Evidence

The product meets the requirements set out in the following documents, or relevant parts of cited standards within the documents:

The Efaflex SST models meet New Zealand Building Code requirements by conforming to structural, durability, fire safety, access, and energy efficiency standards. Structural integrity is demonstrated through compliance with AS/NZS 1170 for load actions, including self-weight, imposed loads, and wind resistance (B1). Durability requirements (15-year lifespan) are met using high-quality materials and manufacturing practices in line with B2. Fire safety is supported by materials tested to AS 1530.4 for fire-resistant properties, ensuring compliance with C3. Automatic door functionality and safety

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align with EN 16005, supporting access and activity space provisions under D1. Water and air ingress prevention align with AS/NZS 4284, ensuring compliance with E2 for building envelope protection. Ventilation requirements are supported by design features enabling controlled airflow, aligning with G4. Thermal resistance and energy efficiency comply with AS/NZS 4859, limiting heat transfer and supporting H1 requirements for reduced energy use.

Supporting Evidence

The product has and can make available the following additional evidence to support the above statements:



ift-Product Passport

[Industrial doors and gates according to EN 13241 - 16-002366-PR01 \(PP-D01-0203040\)](#)

Use in Service History

Refer to: [EFAFLEX References Page](#) EFAFLEX isn't just a globally recognised brand in the area of high-speed doors. Leading national and international companies from all industries rely on our products. Here you will find a selection of implemented projects.

NZ Clients Include.

- NZ Blood
- NZ Post
- DHL

Product Criteria

Design requirements

EFA-SST® high-speed spiral doors are designed for demanding industrial and commercial environments requiring durability, security, and energy efficiency. Ideal for applications such as logistics centers, manufacturing facilities, parking systems, and temperature-controlled spaces, these doors enhance workflow, environmental separation, and security. With robust construction, they integrate seamlessly into structural frames, automation systems, and exterior façades. Models like the ISO-60 and Secure (RC 3/RC 4) provide superior insulation and security for sensitive areas. When specifying for exterior use, consider environmental factors like wind exposure, moisture, and temperature fluctuations to select the appropriate variant.

Installation requirements

EFA-SST® high-speed spiral doors should be installed by qualified technicians experienced in high-speed industrial doors. Installation involves securely mounting the frame, connecting and testing electrical components, and calibrating sensors. Adherence to manufacturer instructions, correct tool usage, and precise alignment are essential to prevent operational issues. Installation should take place in stable temperature and humidity conditions to avoid misalignment or material expansion. Ensuring proper calibration of sensors and components minimizes performance issues and maintains safety in temperature-sensitive applications.

Maintenance requirements

Preventative maintenance is suggested in accordance with Efaflex's maintenance schedules to ensure durability and optimal performance. Recommended tasks include regular visual inspections, cleaning, and checks on wear-sensitive parts like seals and sensors. Adjustments to door tension and recalibration of automation features help prevent issues in high-use environments. Key components, such as springs, electrical connections, and safety edges, should be inspected periodically, with replacements as necessary to maintain longevity and functionality. Efaflex can recommend a qualified contractor to perform these tasks and keep detailed records to support NZBC Clause B2 compliance and ensure reliable door operation.

Warrantees

Efaflex offers a warranty covering manufacturing defects in materials and workmanship under normal use conditions. This warranty applies from the date of installation and requires adherence to Efaflex's recommended maintenance schedule to remain valid. Any modifications, unauthorized repairs, or improper use will void the warranty. Efaflex recommends using certified technicians for maintenance and repairs to ensure continued compliance and performance. The warranty does not cover damages resulting from environmental factors, accidental impact, or improper installation. For extended warranty support, Efaflex can suggest qualified contractors to provide ongoing maintenance and inspections

See: [Limited Warrantee](#)

Company Product Information

Environmental

At EFAFLEX, sustainability is integral to our family-owned business. We prioritize responsible resource use, producing durable, energy-efficient products that contribute to our customers' sustainability goals. Our commitment extends to employee development and long-term engagement, reflecting our role as a responsible employer globally. Our smart product solutions, like the EFA-EnergySaver, enable clients to assess potential energy, CO₂, and cost savings when using our high-speed doors compared to conventional industrial sectional doors.

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See: [EFAFLEX Sustainability](#).

Relationships



Energy Efficiency – made in Germany .0



EcoVadis silver rating



BREEAM .o

Videos

[EFAFLEX - EFAPROTECT Series.](#)

[EFAFLEX - EFA-SST®](#)

[EFAFLEX - EFA-SST® Parking System](#)

Building Product Information Requirements

Manufacturer

Legal Trading Name:

EFAFLEX Tor- und Sicherheitssysteme GmbH & Co. KG

Company Website:

<https://www.efaflex.com>

Contact Number/s:

08003323539

Importer

Legal Trading Name:

EFAFLEX NZ

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Contact Number/s:

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Product Identifier

EFA-SST®

Warnings

This product has no warnings associated with it.



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