EFAFLEX - EFA-SFT® - (F Series) High-speed Folding Doors

Product Technical Statement: 114088

miproducts

Durable, fast, and safe folding door for efficient access in industrial and commercial settings.
View miproducts listing

Level of assurance needed to demonstrate NZ Building Code Compliance

LOW

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

BPIR

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

masterspec partner

Technical Statement

Product Class

CLASS 2

Product Description

EFAFLEX F Series High-Speed Folding Doors

The EFAFLEX F Series is a high-speed folding door system designed for industrial and commercial use. It provides secure, rapid access for building openings while ensuring durability and efficiency.

The door is constructed from reinforced steel or aluminum frames with insulated or non-insulated panels, depending on thermal and acoustic requirements.

Key Features:

- High-speed motor for rapid operation
- Safety sensors to prevent accidents
- Sealing systems to reduce air leakage
- Custom sizes and RAL colours available

Accessories:

- Remote control operation
- Emergency opening systems
- Vision panels for visibility
- Additional safety sensors

The F Series offers thermal insulation, noise reduction, and low maintenance, making it ideal for warehouses, factories, and distribution centres.

Scope of use

The EFAFLEX F Series High-Speed Folding Doors are designed for industrial and commercial applications, providing secure and rapid access to building openings. They are suitable for environments such as warehouses, factories, distribution centers, and loading docks, where efficient workflow, controlled access, and protection against external elements are essential. The doors must be installed in accordance with the supplier's instructions to ensure proper performance and compliance with the New Zealand Building Code. They are intended for use in non-residential buildings and are not suitable for applications requiring fire-rated doors unless specified with fire-rated components. The F Series doors can withstand wind loads within the limits outlined in the product's technical specifications, although installations in high wind zones or exposed areas may require additional bracing or customization. These doors are recommended for use in temperatures ranging from -20°C to +50°C and must be maintained according to the supplier's guidelines to ensure ongoing reliability and compliance.

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) Conformance with NZS 3604 demonstrates that the doors meet structural requirements for self-weight, imposed gravity loads, and wind resistance. Testing to DIN EN

Company Contact Details

Company:	EFAFLEX NZ
Physical Address:	76 Coulter Road Henderson Auckland
Postal Address:	76 Coulter Road Henderson Auckland
Email:	Brian.Hill@efaflex.com
Website:	https://www.efaflex.com/products/high-speed-folding-doors/f-series/

12424 validates wind load resistance up to Class 4, supporting structural integrity under NZBC Clause B1.

- **Clause B2 Durability:** Performance B2.3.1(b)
  The doors meet B2.3.1(b) through the use of durable materials certified for a minimum lifespan of 15 years. Manufacturer specifications and maintenance instructions further ensure long-term durability.
- **Clause C3 Fire affecting areas beyond the fire source:** Performance C3.7(a)
  The doors utilize materials conforming to DIN 4102, Class B2, demonstrating limited combustibility and satisfying C3.7(a) fire safety requirements.
- **Clause D1 Access routes:** Performance D1.3.1(a), D1.3.1(b), D1.3.3(n)
  Sealing systems and moisture protection measures conform to E2.3.2 and E2.3.3, supported by testing against ingress protection standards, ensuring protection against external moisture.
- **Clause E2 External moisture:** Performance E2.3.2, E2.3.3
  Sealing systems and moisture protection measures conform to E2.3.2 and E2.3.3, supported by testing against ingress protection standards, ensuring protection against external moisture.
- **Clause G4 Ventilation:** Performance G4.3.2
  The doors support G4.3.2 by contributing to ventilation systems in buildings. Their high-speed operation and sealing systems minimize uncontrolled airflow while allowing rapid openings to regulate air exchange. These features enhance the performance of mechanical air-handling systems and help maintain indoor air quality.
- **Clause H1 Energy efficiency :** Performance H1.3.1(a), H1.3.1(b), H1.3.6(a)
  Thermal resistance and energy efficiency are achieved through compliance with DIN EN 13241, which confirms U-values of 1.6 W/m²K using EFA-THERM panels. This supports conformance with H1.3.1(a), H1.3.1(b), and H1.3.6(a).

Evidence

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

The EFAFLEX F Series High-Speed Folding Doors comply with the selected New Zealand Building Code (NZBC) provisions through adherence to relevant standards, compliance documents, and verification methods.

The products meet B1 Structure requirements for self-weight, imposed gravity loads, and wind resistance, validated through testing to DIN EN 12424 (wind load Class 4) and engineering assessments aligned with NZS 3604. For durability (B2.3.1(b)), materials are certified to provide a minimum 15-year lifespan.

Fire safety (C3.7(a)) is demonstrated through compliance with DIN 4102, Class B2, confirming limited flammability. Moisture protection (E2.3.2, E2.3.3) is achieved with tested sealing systems to prevent ingress and protect structural elements.

Energy efficiency (H1) is supported by insulation performance, including U-values of 1.6 W/m²K for EFA-THERM panels, verified under DIN EN 13241.

Compliance is further ensured through manufacturer testing, certifications, and installation instructions that meet NZBC performance requirements.

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.

Product Criteria

Design requirements

The EFAFLEX F Series High-Speed Folding Doors are designed for industrial and commercial applications, providing rapid, secure access with durability and energy efficiency. They are suitable for high-frequency operations (up to 200,000 cycles per year) in environments requiring thermal insulation, soundproofing, or wind resistance (up to Class 4 per DIN EN 12424). Installation must follow manufacturer guidelines to ensure compliance with NZBC clauses like B1, B2, E2, and H1.

The doors feature anodised aluminium or galvanised steel frames with panel options including acrylic glass, insulated foam-filled laths, or double-walled aluminium. A wide range of RAL

colours is available for customization.Configurations

include two-leaf or four-segment designs with optional pedestrian doors. Accessories include safety features (contact strips, light barriers), heating elements for external setups, and maintenance units for compressed air systems

Installation requirements

The EFAFLEX F Series High-Speed Folding Doors must be installed by qualified technicians with expertise in high-speed industrial doors. Installation includes securely mounting the frame, connecting electrical components (230V), and, if required, compressed air connections (4–6 bar). Proper calibration of sensors, safety strips, and controls is critical to ensure compliance with NZBC clauses, including B1 (Structure), B2 (Durability), and H1 (Energy Efficiency).

Precise alignment of the frame and seals is necessary to maintain thermal and acoustic performance. Fixings include galvanized steel or anodized aluminum frames, rubber seals, and modular segments. Accessories such as pedestrian doors, heating elements, and weatherproof covers must be installed following manufacturer instructions.

Installation should occur under stable conditions to avoid material expansion or misalignment, with final testing to verify safety systems and operational reliability

Maintenance requirements

Preventative maintenance is critical for the EFAFLEX F Series High-Speed Folding Doors to meet NZBC Clause B2 (Durability). Maintenance should follow the manufacturer's schedule, including regular visual inspections, cleaning, and checks on seals, sensors, and moving parts. Tasks include recalibrating sensors, adjusting door tension, and replacing worn components like seals and safety edges to maintain performance in high-use environments.

During installation, ensure proper alignment and calibration to prevent premature wear. The building owner should perform monthly visual checks and arrange annual professional inspections. Neglecting maintenance may void warranties and shorten the product's lifespan.

At the end of its life, components like aluminum and steel frames can be recycled, while electrical parts must be disposed of per local regulations. Detailed maintenance records are recommended to ensure compliance and durability

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 inspectionsSee: 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, CO_2, and cost savings when using our high-speed doors compared to conventional industrial sectional doors.

See: EFAFLEX Sustainability

Relationships

- Energy Efficiency – made in Germany .0
- EcoVadis silver rating
- BREEAM .o

Videos

EFA-SFT®
EFAFLEX High Speed Folding Door

Building Product Information Requirements

Manufacturer

Legal Trading Name:
EFAFLEX Tor- und Sicherheitssysteme GmbH & Co. KG

EFAFLEX - EFA-SFT® - (F Series) High-speed Folding Doors

Product Technical Statement: 114088

miproducts

Company Website:
https://www.efaflex.com

Contact Number/s:
08003323539

Importer

Legal Trading Name:
EFAFLEX NZ

Business Email:
Brian.Hill@efaflex.com

Company Website:
www.efaflex.com/

Contact Number/s:
0800 3323539

Product Identifier

EFA-SFT

Warnings

This product has no warnings associated with it.

Date last validated: **25 November 2024**

Date last updated: **25 November 2024**