

EFAFLEX - EFA-STT® - Transparent Turbo Doors

Product Technical Statement: 114062



Ultra-Fast & Transparent

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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 - 16-002368-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-STT High-Speed Turbo Door is an industrial door designed for fast, reliable, and continuous operation in industries such as manufacturing, logistics, and cleanroom facilities. It provides durability, speed, and ease of use in demanding environments.

The door features a frame made from galvanized or powder-coated steel for strength and longevity, with a door leaf constructed from anodized aluminum and transparent or non-transparent plastic panels. These materials offer excellent visibility, robustness, and resistance to wear.

Key Components:

- Self-supporting steel side frames.
- Spiral body for wear-free, non-contact guidance of the door leaf.
- Door leaf made of anodised aluminium with transparent or opaque panels.
- High-performance gear brake motor for smooth operation.
- Integrated microprocessor control system with frequency converter.

Special Features:

- High-speed opening up to 3.2 m/s (depending on size).
- Noise-reducing operation with precision rollers.
- Wind resistance up to Class 4 (DIN EN 12424).
- Thermal insulation up to 6.4 W/m²K.
- Manual operation capability during power failure.

The EFA-STT High-Speed Turbo Door ensures efficiency, safety, and durability, making it ideal for maintaining controlled environments and enhancing operational performance.

Scope of use

The EFA-STT High-Speed Turbo Door is designed for use in industrial, commercial, and cleanroom environments where high-speed operation, durability, and safety are required. Typical applications include logistics centers, manufacturing facilities, warehouses, and controlled environments such as laboratories and food processing areas.

This door is intended for installation in vertical structural openings and is suitable for internal or external use, provided environmental conditions align with its performance specifications. It is particularly effective in maintaining controlled environments by reducing air exchange, dust ingress, and temperature loss.

Restrictions:

- The door must be installed in accordance with DIN EN 13241 and relevant local building codes.
- For external installations, wind load resistance up to Class 4 (DIN EN 12424) must be verified for site-specific conditions.
- The door's thermal insulation (up to 6.4 W/m²K) is effective in minimizing heat transfer but may require additional insulation for highly sensitive thermal environments.
- Proper maintenance and operation per the manufacturer's instructions are essential to ensure safe and efficient performance.
- Installation in areas with significant water exposure requires site-specific assessment, as the door has limited watertightness.

masterspec partner

Company Contact Details



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This product is not intended for residential use or for applications requiring prolonged exposure to corrosive environments without additional protective coatings.

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)
Compliance is demonstrated through DIN EN 12424 for wind load resistance (up to Class 4), DIN EN 12604 for self-weight and mechanical resistance, and DIN EN 12605 for durability testing.
- **Clause B2 Durability:** Performance B2.3.1(b)
The product aligns with durability expectations as outlined in DIN EN 13241, with materials like galvanized steel and anodized aluminum ensuring a lifespan of at least 15 years.
- **Clause C3 Fire affecting areas beyond the fire source:** Performance C3.7(a)
Materials used in the product construction are non-combustible or fire-resistant, consistent with DIN EN 13241 standards.
- **Clause D1 Access routes:** Performance D1.3.1(b), D1.3.3(a), D1.3.3(n)
The product meets safety and accessibility requirements as outlined in DIN EN 12453 for automated doors, including emergency manual opening provisions.
- **Clause E2 External moisture:** Performance E2.3.2, E2.3.3
Water resistance is addressed through compliance with DIN EN 12489, ensuring no water penetration under normal environmental conditions.
- **Clause G4 Ventilation:** Performance G4.3.2
The high-speed operation of the door, along with its sealing properties, helps maintain controlled airflow environments, supporting mechanical air-handling systems in meeting performance expectations.
- **Clause H1 Energy efficiency :** Performance H1.3.1(a), H1.3.1(b), H1.3.6(a)
Thermal performance aligns with DIN EN 12428, achieving U-values up to 6.4 W/m²K to reduce heat loss and energy consumption.

Evidence

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

The EFA-STT High-Speed Turbo Door is designed and manufactured in alignment with the New Zealand Building Code (NZBC) requirements, referencing relevant international standards. For B1 Structure, the door aligns with DIN EN 12424 for wind load resistance (up to Class 4) and DIN EN 12604 for self-weight and mechanical resistance, ensuring stability under expected forces. B2 Durability is supported by robust materials such as galvanized steel and anodized aluminum, providing durability for at least 15 years. The materials also meet expectations under C3 Fire Protection for non-combustibility. For D1 Access, the product incorporates features outlined in DIN EN 12453 for safe operation and emergency manual opening. E2 External Moisture considerations are addressed with design features to resist water penetration as outlined in DIN EN 12489. H1 Energy Efficiency is supported with thermal resistance (DIN EN 12428) achieving U-values up to 6.4 W/m²K, helping to reduce heat loss and airflow. Proper installation and maintenance ensure the door operates in a manner consistent with 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 - 16-002368-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

The EFA-STT High-Speed Turbo Door is designed for industrial and commercial use, suitable for internal and external applications such as manufacturing, logistics, cleanrooms, and warehouses. It is intended for vertical structural openings and must be installed per NZBC Acceptable Solutions and the manufacturer's instructions.

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The door features customizable dimensions, a galvanized or powder-coated steel frame, and anodized aluminum panels with transparent or opaque options. Accessories include safety light grids, mechanical locking mechanisms, and ventilation laths. Fixings must suit the structural substrate to meet wind load resistance up to Class 4 (DIN EN 12424).

Installation requires alignment with DIN EN 13241, a suitable power supply, and proper sealing to ensure thermal performance (DIN EN 12428) and water resistance (DIN EN 12489). Regular maintenance is essential for reliable operation and ongoing conformance with performance expectations.

Installation requirements

Efaflex STT 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 Warranty](#)

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.

See: [EFAFLEX Sustainability](#)

Relationships



Energy Efficiency – made in Germany .0



EcoVadis silver rating



BREEAM .0

Videos

[EFA-STT® CR \(Clean Room\)](#)

[EFA-STT®](#)

[EFA STT® - Turbo Door to Carpark](#)

Building Product Information Requirements

Manufacturer

Legal Trading Name:

EFAFLEX Tor- und Sicherheitssysteme GmbH & Co. KG

Company Website:

<https://www.efaflex.com>

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Contact Number/s:
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Product Identifier
EFA-STT

Warnings

This product has no warnings associated with it.



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Date last updated: **25 November 2024**

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