PENSA | Alpha | Performance Sectional Doors

Product Technical Statement: 114102

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Innovative sectional doors combining durability, efficiency, and style for any application.
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Level of assurance needed to demonstrate NZ Building Code Compliance

MEDIUM

Supporting documentation should include technical information by manufacturer and either an independent assessment or reference to an industry-based scheme

PENSA confirms that this minimum level of assurance has been met or exceeded by the following:
TUV
DIN EN 12453 & DIN EN 12604 - Various

BPIR

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

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Technical Statement

Product Class

CLASS 2

Product Description

Designed for industrial and commercial environments, these doors offer a versatile range of solutions tailored to meet the specific needs of various projects. Whether prioritizing thermal insulation, maximizing natural light, or achieving superior visibility, each model is engineered to deliver exceptional performance, long-term reliability, and aesthetic appeal.

The range includes the ISO Series for robust insulation and climate zone separation, the Panorama Series for seamless transparency and modern design, and the ALU Series for lightweight durability with customizable glazing options. For high-frequency use, Springless Doors reduce maintenance and improve efficiency, making them ideal for demanding environments such as warehouses and parking garages.

All doors feature premium materials, advanced safety systems, and optional automation to enhance usability and compliance with building requirements. With customization options such as RAL color finishes, glazing types, and operational configurations, these doors integrate seamlessly into any architectural design. Certified to EN 13241 and designed to align with New Zealand Building Code requirements, they meet standards for durability, safety, energy efficiency, and moisture control.

PENSA | Alpha sectional doors are the ultimate solution for projects demanding reliable, high-performing, and visually appealing access systems.

Contact PENSA for Drawings

Scope of use

Designed for industrial and commercial applications, including warehouses, production facilities, showrooms, parking garages, and climate-controlled environments. The range includes options for high thermal insulation, panoramic transparency, and durable construction to meet a variety of operational and architectural needs. Suitable for installation on structurally sound substrates, the doors can be used in environments with moderate to high wind loads (up to Class 3-4 per EN 12424) and are compatible with automatic or manual operation systems.

Restrictions include maximum door dimensions specific to each series: up to 10,000 mm wide for selected models and 6,000 mm high.

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)
    - B1.3.1, B1.3.2, B1.3.3(a), (b), (h): The doors conform to structural stability requirements via EN 13241, ensuring performance under self-weight, imposed loads, and wind resistance (Class 3-4 per EN 12424). Testing data validates resilience against expected environmental and operational forces.
- **Clause B2 Durability:** Performance B2.3.1(b)

Company Contact Details

Brand:	PENSA
Company:	Pensa Doors NZ Limited
Physical Address:	92 Takanini School Road Auckland
Postal Address:	318 Pukekohe
Email:	info@pensadoors.com
Website:	https://www.pensadoors.com/insulated-sectional-doors

- B2.3.1(b): Durability is achieved using anodized aluminum and galvanized steel components designed to last at least 15 years under normal conditions. These materials conform to EN 13241 and ISO 9223 classifications for corrosion resistance.

- **Clause C3 Fire affecting areas beyond the fire source:** Performance C3.7(a)
  - C3.7(a): The use of non-combustible materials in the door frames and panels inhibits fire spread, aligning with EN 13241 safety standards. Fire-resistant Plexiglas and steel components further support this provision.
- **Clause D1 Access routes:** Performance D1.3.1(b), D1.3.3(a), D1.3.3(n)
  - D1.3.1(b), D1.3.3(a), (n): Safe and accessible entry is provided through wide openings, automatic operation with obstacle detection, and smooth manual operation. The doors meet the safety and usability criteria outlined in EN 13241.
- **Clause E2 External moisture:** Performance E2.3.2, E2.3.3
  - E2.3.2, E2.3.3: Weatherproof seals prevent water ingress and moisture transfer, tested under EN 12425 (air permeability) and EN 12426 (water tightness). These features ensure long-term resistance to environmental moisture.
- **Clause E3 Internal moisture:** Performance E3.3.1
  - E3.3.1: The doors' thermally insulated panels and precision sealing systems limit condensation and moisture buildup, promoting internal environmental stability. Testing adheres to EN 13241 guidelines.
- **Clause G4 Ventilation:** Performance G4.3.2
  - G4.3.2: Airtight construction supports ventilation systems by minimizing unwanted air leakage, verified through EN 12425 testing for air permeability.
- **Clause G5 Interior environment:** Performance G5.3.1
  - G5.3.1: Soundproofing properties and natural light transmission enhance temperature, light, and acoustic comfort. These features align with EN 13241 performance standards for interior environments.
- **Clause H1 Energy efficiency :** Performance H1.3.1(a), H1.3.1(b), H1.3.6(a), H1.3.6(b)
  - H1.3.1(a), (b), H1.3.6(a), (b): Thermal resistance is demonstrated by U-values as low as 0.49 W/m²K (ISO 80), tested under ISO 10077-1. Airtight construction limits uncontrollable airflow, ensuring efficient energy use. The design enables ongoing maintenance to sustain energy efficiency.

Notes

For any queries and questions, please refer to PENSA - 0800 667721

Evidence

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

The PENSA | Alpha sectional overhead door range demonstrates conformance with NZBC requirements through adherence to industry standards and rigorous testing. Structural performance (B1) is validated via EN 12424 for wind resistance (Class 3-4) and EN 13241, addressing self-weight and imposed loads. Durability (B2) is assured through the use of corrosion-resistant materials, such as anodized aluminum and galvanized steel, aligned with EN 13241 and ISO 9223 guidelines.

Access provisions (D1) are supported by safe, automated, and manual operation features, including obstacle detection, conforming to EN 13241. Moisture control (E2, E3) is achieved with weatherproof seals, tested to EN 12425 (air permeability) and EN 12426 (water tightness). Interior environment considerations (G4, G5) are met with soundproofing and airtight construction for temperature, light, and air quality. Energy efficiency (H1) is achieved with U-values as low as 0.49 W/m²K, tested per ISO 10077-1. Installation aligns with NZBC-conforming practices.

See PENSA Specification Resources for info

Supporting Evidence

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

TUV
DIN EN 12453 & DIN EN 12604 - Various

Use in Service History

- Bidfood New Zealand
- Lineage New Zealand
- Various others...

Product Criteria

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Design requirements

PENSA | Alpha - Sectional Doors are designed for industrial and commercial applications, including warehouses, showrooms, and parking garages. The range includes ISO, ALU, Panorama, and Springless doors, offering solutions for thermal insulation, natural light, and high-frequency use. Panels are available in various thicknesses, finishes, and glazing options to suit operational and aesthetic needs. Installation must follow supplier instructions and comply with NZBC Acceptable Solutions for alignment, sealing, and durability. Components include insulated panels, aluminum frames, robust seals, and optional automation. Accessories such as safety sensors, RAL color finishes, and wicket doors enhance usability. Fixings must support rail systems for secure operation. Restrictions include maximum sizes and suitability for wind zones. Conformance to EN 13241 ensures durability, safety, and energy efficiency.

Installation requirements

PENSA technicians, experienced in industrial sectional doors, should install PENSA | Alpha sectional doors. The installation process involves securing the frame, assembling panels, connecting electrical components, and calibrating automation systems where applicable. Technicians must follow the manufacturer's instructions, use specified tools, and ensure precise alignment to maintain weatherproofing and operational reliability. Installation should be carried out under stable temperature and humidity conditions to prevent material expansion or misalignment, ensuring the doors deliver optimal performance and durability.

Maintenance requirements

PENSA offers preventative maintenance agreements to ensure NZBC Clause B2 (Durability) compliance and long-term performance for doors. Each maintenance task includes a visual inspection prior to any repair or replacement to assess wear and functionality. Maintenance is carried out proactively to optimize door functionality and extend lifespan. Detailed records of all work performed will be provided to document compliance and ensure reliable, secure door performance over time.

Warrantees

PENSA | Alpha doors come with a 2-year warranty on parts and labor, extendable upon request. This warranty is conditional upon entering into a Preventative Maintenance Agreement to ensure the doors are serviced as per manufacturer requirements. Each service includes a detailed report, provided within 5 days of completion. The warranty excludes damage from impact or operator error. Standard door systems retain warranty coverage when unaffected by operator misuse.

Preventative maintenance ensures door safety, extends lifespan, and reduces unexpected costs by detecting significant maintenance needs early. PENSA Doors NZ Ltd emphasizes the importance of a Preventative Maintenance Program for all door systems to ensure site safety and optimal performance. By adhering to this program, businesses benefit from reduced reactive maintenance, increased safety, and compliance with site-specific requirements.

Company Product Information

Environmental

PENSA | Alpha sectional doors are constructed using high-quality materials, including anodized aluminum frames and Plexiglas Optical panels. These materials are chosen for their durability and recyclability, aligning with sustainable building practices. At the end of their lifecycle, components can be dismantled and recycled, minimizing environmental impact during disposal.

The doors' energy-efficient design contributes to improved thermal performance, potentially enhancing a building's Green Star rating by reducing energy consumption. Additionally, the use of recyclable materials supports the accumulation of points in the Materials category of the Green Star assessment. By integrating PENSA | Alpha sectional doors, projects can advance their sustainability objectives and achieve higher Green Star ratings. Refer to PENSA Specification Resources for EPD information

Relationships

EcoPlatform Various

Videos

Alpha Deuren - Insulation ++ Package
Alpha springless sectional doors

Building Product Information Requirements

Manufacturer

Legal Trading Name:
Alpha Deuren NL

Contact Number/s:
0800667721

PENSA | Alpha | Performance Sectional Doors

Product Technical Statement: 114102

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Importer

Legal Trading Name:
Pensa Doors NZ Limited

Business Email:
info@pensadoors.com

Company Website:
www.pensadoors.com

Contact Number/s:
0800 667721

Product Identifier

ISO 40 MM ISO 60 MM ISO 80 MM ALU 40 MM ALU 60 MM PANORAMIC DOOR 40 MM PANORAMIC DOOR 60 MM SPARE PARTS

Warnings

This product has no warnings associated with it.

Date last validated: **05 December 2024**

Date last updated: **05 December 2024**