

Efficient, durable, and energy-saving dock solutions for logistics and industrial needs.

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Level of assurance needed to demonstrate NZ Building Code Compliance

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



PENSA | Stertil confirms that this minimum level of assurance has been met or exceeded by the following:

TUV

[Dockdoor to DIN EN 12453 & DIN EN 12604 - 4478012008209](#)



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

Technical Statement

Product Class

CLASS 2

Product Description

The PENSA | Stertil | Complete Dock Systems integrate advanced sectional doors, hydraulic dock levellers, and high-performance dock shelters to create a seamless, safe, and energy-efficient loading bay environment. Designed for industrial warehouses, logistics hubs, and cold storage facilities, these systems ensure superior thermal insulation, enhanced safety, and optimized operational efficiency.

Key Features:

ISO 80 Sectional Doors:

- 80 mm polyurethane-filled panels for unmatched insulation and energy efficiency.
- High wind resistance up to Class 4, suitable for extreme weather conditions.
- Available in a variety of finishes and customizable sizes to match facility requirements.

Hydraulic Dock Levellers:

- Swing lip and telescopic configurations to suit diverse truck heights and dock layouts.
- Patented self-cleaning open-lip hinge for long-lasting reliability and ease of maintenance.
- Engineered for seamless integration and compliance with European safety standards (EN 1398).

Dock Shelters:

- Inflatable, curtain, and cushion options for superior sealing and weatherproofing.
- Ideal for energy conservation and protection against pests, dust, and moisture.

Advantages:

These systems deliver reduced energy costs, faster installation with Dock-Door Easy Install technology, and long-term durability. With customizable options and eco-friendly components, the PENSA | Stertil | Complete Dock Systems meet the needs of modern industrial facilities while promoting sustainable practices.

Achieve greater efficiency and reliability with this premium tailored dock solution.

Scope of use

The PENSA | Stertil | Complete Dock Systems are intended for use in logistics facilities, warehouses, distribution centers, cold storage facilities, and industrial sites. These systems are suitable for environments where efficient loading and unloading operations are critical, particularly in applications requiring enhanced thermal insulation, weather resistance, and energy efficiency.

Key applications include:

- Facilities with varying truck heights and high-frequency docking needs.
- Temperature-sensitive environments such as cold storage or food processing logistics.
- Locations exposed to strong winds or adverse weather conditions.

Restrictions:

- Dock shelters must be installed in compliance with minimum clearance requirements to ensure proper sealing and operational safety.



masterspec partner

Company Contact Details



Brand: PENSA | Stertil

Company: Pensa Doors NZ Limited

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Auckland

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Pukekohe

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Website: <https://www.pensadoors.com/dock-systems>

- Hydraulic dock levellers are limited to a maximum slope gradient of 13%, depending on internal transport equipment specifications.
- Sectional doors must be installed on structures that meet the load-bearing and stability requirements specified in EN 13241.

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(c)
 - Compliance with EN 13241 ensures the structural integrity of doors and dock systems under imposed loads, wind pressures (Class 3-4 per EN 12424), and temperature variations. These standards align with NZBC requirements for stability and load-bearing performance.
- **Clause B2 Durability:** Performance B2.3.1(b)
 - The systems use high-tensile steel, galvanized components, and polyurethane-insulated panels tested for a minimum 15-year lifespan. Compliance aligns with durability requirements of NZS 3101 and AS/NZS 2312 for corrosion protection.
- **Clause D1 Access routes:** Performance D1.3.1(b), D1.3.3(a), D1.3.3(b), D1.3.3(c)
 - Designed per EN 1398, dock levellers provide safe and ergonomic access, with features like smooth transitions, slip resistance, and obstruction-free pathways. This satisfies D1/AS1 requirements for safe movement and access routes.
- **Clause E2 External moisture:** Performance E2.3.2, E2.3.7
 - Dock shelters are tested to provide airtight seals that prevent water ingress, meeting E2/AS1 requirements for external moisture control. Material selection and design ensure long-term environmental sealing.
- **Clause G4 Ventilation:** Performance G4.3.1
 - Controlled airflow through docks contributes to maintaining healthy internal air quality, aligning with G4/AS1 acceptable solutions.
- **Clause H1 Energy efficiency :** Performance H1.3.1(a), H1.3.1(b), H1.3.2E
 - ISO 80 mm sectional doors with U-values of 0.49 W/m²K meet modern energy performance standards. These align with H1/AS1 provisions for reducing heat loss and controlling airflow, verified through EN compliance testing.

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 | Steril | Complete Dock Systems comply with NZBC provisions through robust design and adherence to international standards. Structural performance (B1.3.1, B1.3.2, B1.3.3) is ensured by compliance with EN 13241 and EN 12424, offering wind resistance up to Class 4 (12-13 Beaufort) and reliability under imposed loads. Durability (B2.3.1(b)) is achieved with high-tensile steel, galvanised components, and polyurethane panels, ensuring a lifespan of at least 15 years. The systems provide safe and obstruction-free access (D1.3.1(b), D1.3.3(a-c)), meeting EN 1398 ergonomic and safety requirements. External moisture protection (E2.3.2, E2.3.7) is guaranteed by airtight dock shelters and seals, keeping out water, dust, and pests. Ventilation (G4.3.1) is maintained through controlled airflow during operations. Energy efficiency (H1.3.1(a-b), H1.3.2E) is enhanced with ISO 80 mm sectional doors offering U-values of 0.49 W/m²K, minimizing heat loss and supporting sustainable operation.

Refer to [PENSA Specification Resources](#) for more info

Supporting Evidence

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



TUV

[Dockdoor to DIN EN 12453 & DIN EN 12604 - 4478012008209](#)

Use in Service History

GLOABAL SERVICE HISTORY, REFER ENQUIRIES TO PENSA

Product Criteria

Design requirements

The PENSA | Steril | Complete Dock Systems are designed for use in logistics hubs, warehouses, and industrial facilities, particularly where efficient loading/unloading, thermal insulation, and

environmental sealing are essential. Systems must be installed according to EN 13241 standards and align with NZBC acceptable solutions for access (D1/AS1) and moisture control (E2/AS1).

Key components include ISO 80 mm sectional doors, hydraulic dock levellers (swing lip and telescopic), and dock shelters (cushion, curtain, inflatable). Accessories such as guidance chevrons, vehicle restraints, and insulated sandwich panels enhance performance and safety. Fixings include pre-assembled spring systems for doors and galvanised frames for levellers.

Restrictions: Installation must consider site-specific factors such as vehicle heights, platform gradients ($\leq 13\%$), and clearances. Custom finishes and configurations are available to meet project-specific requirements.

Installation requirements

The PENSA | Stertil | Complete Dock Systems should be installed by trained technicians experienced in industrial doors and dock systems. Installation involves securing frames, aligning dock levellers, and integrating dock shelters and sectional doors. Electrical components must be connected per manufacturer instructions, and automation systems calibrated for seamless operation.

Technicians must use specified tools, follow detailed guidelines for structural anchoring, and ensure proper alignment to avoid operational issues. Installation should consider site-specific factors such as vehicle clearance and sealing requirements. Work must be conducted under stable environmental conditions to prevent material expansion or misalignment.

Maintenance requirements

PENSA offers preventative maintenance agreements to ensure compliance with NZBC Clause B2 (Durability) and to optimize the long-term performance of the Stertil | Complete Dock Systems. Maintenance includes regular visual inspections to assess wear, functionality, and component integrity. Key tasks involve lubrication of moving parts, cleaning of seals and hinges, and proactive replacement of worn components.

Maintenance schedules must align with manufacturer recommendations, considering operational frequency and environmental conditions. Detailed records of inspections, repairs, and replacements are provided to document compliance and maintain system reliability. All work must be carried out by qualified technicians using manufacturer-approved parts to ensure durability and consistent performance over the system's lifespan.

Warrantees

PENSA warrants the Stertil | Complete Dock Systems against defects in materials and workmanship for one year from the date of installation. This warranty covers repair or replacement of defective components under normal use and maintenance, provided maintenance is performed under a PENSA Service and Preventative Maintenance Agreement. It excludes damage from misuse, unauthorized modifications, or environmental factors beyond design specifications.

Company Product Information

Environmental

PENSA is committed to sustainable practices and minimizing environmental impact. The Stertil | Complete Dock Systems are manufactured using eco-friendly materials and processes, designed to enhance energy efficiency and reduce waste. All packaging materials are recyclable, and installation minimizes site disruption. Customers are encouraged to dispose of components responsibly at the end of their lifecycle in accordance with local environmental regulations.

Quality Assurance



ISO 9001 (Quality Management)

Relationships



CE Various



TÜV Various

Videos

[COMBILOK® G2 automated vehicle restraint system](#)

[Stertil Dock Products](#)

Building Product Information Requirements

Manufacturer

Legal Trading Name:

Stertil Dock Products

Contact Number/s:

0800667721

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

DOCK LEVELLERS: P-SERIES X-SERIES S-SERIES DOCK SHELTERS: WI/WIS SERIES TP/TI
SERIES VEHICLE RESTRAINTS: COMBILOK® G2 DOCK DOORS: ISO 80 MM DOOR
ACCESSORIES: DOCK BUMPERS, WHEEL GUIDES, DOCK LIGHTS, TRAFFIC LIGHTS.

Warnings

This product has no warnings associated with it.



Date last validated: **05 December 2024**



Date last updated: **05 December 2024**

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