

Spiroflex Building Product Information Sheet

Version 1.1 – Issued 20/09/24

Product

Product name	Spiroflex
Product type	Flexible Duct
Product Identifiers	FLEXP/FLEXPI/FLEXAI

Product description and intended use

- Spiroflex is a line of flexible ductwork designed for use within ventilation systems.
- It is manufactured from fibreglass reinforced aluminised PET foil tape wound around a steel spring wire.
- Spiroflex ducting is available in diameters from 100mm to 500mm.
- Spiroflex ducting is available as plain ducting or with either acoustic or regular insulating jackets.
- The thermal resistance rating of both the acoustic and regular polyester insulation is R1.0 m²K/W
- Insulating jackets include a flame retarded seamless outer sleeve.
- Spiroflex ducting is not self-supporting over its length and without adequate fixing ties can move with changes in pressure.
- Spiroflex should not be used on VAV diffuser connections where branch duct pressure may fluctuate, nor should it be used as a high pressure (inlet) ducting to VAV boxes or other pressure reducing devices.

Relevant NZBC clauses

- Clause B2 Durability: Performance B2.3.1 (c) 5 Years
- Clause C3 Fire Affecting Areas Beyond the Fire Source: Performance C3.4 (a)
- Clause H1 Energy Efficiency: Performance H1.3.6

Contributions to compliance with NZBC

- **B2:** The lifespan of Spiroflex ducting will vary based on the environment it is installed in. For a standard HVAC installation, Spiroflex ducting would provide a durability of a minimum of 5 years. Excessively corrosive or harmful environments or exposure to fire, heat or water will reduce the lifespan of Spiroflex ducting.
- **C3:** Spiroflex complies with ISO9705 in accordance with C3.4 (a) and has a group classification number 1-S (highest available).
- **H1:** For installations within a commercial building the pressure drop in the index run across all straight sections of rigid and all sections of flexible duct must not exceed 1 Pa per metre length when averaged its entire length.
- **H1:** Flexible duct must not account for more than 6m in length in any duct run within a commercial building.
- **H1:** When flexible duct is used as part of transfer ducts within a commercial building, the maximum overall pressure drop is 12 Pa.
- **H1:** Spiroflex ducting complies with AS/NZS 4859.1
- **H1:** Insulated and acoustic insulated Spiroflex has an R value of 1.0m²K/W

- **H1:** The external jacket of the insulated ducting protects the insulation from the effects of weather and sunlight, ensuring that the insulation properties don't reduce over time. The insulation in Spiroflex ducting is protected by a polyethylene vapour barrier to avoid condensation forming.

Relevant standards

- The polyester insulating jacket is compliant with and tested to AS/NZS 4859.1
- Spiroflex has been tested to AS4254:2002 in accordance with AS1530.3
- Spiroflex complies with ISO9705 and has achieved a group classification number 1-S.

Conditions and limitations of use

- Spiroflex ducting should be specified by a suitably qualified engineer.
- Spiroflex ducting should be installed by a suitably qualified and trained tradesperson.

Warnings and bans

Spiroflex ducting is **not** subject to a warning or ban under section 26 of the Building Act 2004.

Installation details and product datasheet

Spiroflex ducting product datasheet and installation details can be found on our [website](#).

Maintenance requirements

Spiroflex ducting should be routinely inspected and tested to ensure that it is free of kinks, tears and breakages.

Manufacture details

Manufacture location

Designed and imported by

Manufacturer NZBN

Manufacturer website

Auckland address for service

Auckland office email

Auckland office phone number

Wellington address for service

Wellington office email

Wellington office phone number

Christchurch address for service

Christchurch office email

Christchurch office phone number

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Declaration

Price Holyoake (NZ) Ltd has provided this declaration to satisfy the provisions of Schedule 1(d) of the Building (Building Product Information Requirements) Regulations 2022.

Version History

Version number	Written by	Date issued	Changes from previous document
V1.0	ST	11/6/24	First issue
V1.1	ST	20/09/24	Updated Christchurch Address and website URL