

Spiroset Building Product Information Sheet

Version 1.1 – Issued 20/09/24

Product

Product name	Spiroset
Product type	Semi-rigid Duct
Product Identifiers	SETP/SETPI/SETAI

Product description and intended use

- Spiroset is a line of semi-rigid ductwork designed for use within ventilation systems.
- It is machine formed in a continuous spiral from aluminium strip coil stock, corrugated and seamed with a four-ply lock seam.
- Spiroset ducting is available as plain ducting or with either acoustic or regular insulating jackets.
- Spiroset plain ducting is available in diameters of 75mm to 500mm, Insulated Spiroset is available in diameters of 100mm to 500mm and acoustic Spiroset is available in diameters of 100mm to 300mm.
- 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.
- Spiroset ducting is self-supporting over its normal maximum (3m) length and will conform to a desired duct route without altering its full circular cross section.

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 Spiroset ducting will vary based on the environment it is installed in. For a standard HVAC installation, Spiroset 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 Spiroset ducting.
- **C3:** Spiroflex complies with C3.4 (a)
- **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 or semi rigid duct is used as part of transfer ducts within a commercial building, the maximum overall pressure drop is 12 Pa.
- **H1:** Spiroset ducting complies with AS/NZS 4859.1
- **H1:** Insulated and acoustic insulated Spiroset 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.

- **H1:** The insulation in Spiroset 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
- Spiroset has been tested to AS4254:2002 in accordance with AS1530.3

Conditions and limitations of use

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

Warnings and bans

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

Installation details and product datasheet

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

Maintenance requirements

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

Manufacture details

Manufacture location
Manufactured by

New Zealand
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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	11/06/24	First issue
V1.1	ST	20/09/24	Updated Christchurch Address and website URL