

# Class 1

## Building Product Information Sheet

**Product Name:**

Raven, Door Frame / Perimeter Seal, RP87Si

**Product Description and its intended use:**

RP87Si is an effective door stop seal for noise, light and smoke. It can be butt jointed for a neatly finished continuous seal, replacing the conventional doorstop on metal or timber framed doors. With tamper proof concealed fixings, the RP87Si utilises independently adjustable screws to achieve up to 6mm sealing adjustment for maximum noise control. The silicon rubber seal only requires normal door closing force.

Note: If fixing to rebated frames of single doors, specify a long backset door latch.

**Location:** Head and jambs of single and double butt hinged.

**Min/Max Gap:** 0mm to 6mm.

**Finish:** Satin clear (silver), black anodised aluminium (15µm) or paint at extra cost.

**Fixing:** Concealed screw fix. Zinc plated, cross recess head S.T screws and cover strip supplied.

**Seal:** RP310Si. Black silicon rubber (SE).

**Sizes:** Available in door set sizes or stock lengths.

**Product Identifier:**

Raven, RP87Si

**Place of Manufacturer:**

Wuxi, Peoples Republic of China

**Legal and trading name of the manufacturer**

Raven Architectural Products (Wuxi) Co., Ltd

**Address for service:**

Unit 3 & 4, No 18 Antai 2nd Road, Xishan District, Wuxi City,  
Jiangsu Province, 214107 China

**Website:**

www.raven.com.au

**Email:**

sales@ravensealing.com

**Phone number:**

(86) 0510 8503 4560 8012

**NZBN:**

N/A

**Legal and trading name of the importer:**

Raven Product Ltd

**Address of service:**

15 Dryden Place, Ellerslie, Auckland 1051, New Zealand

**Website:**

www.raven.co.nz

**Email:**

service@raven.co.nz

**Phone number:**

(64) 9 579 2744

**NZBN:**

9429000007696

**Relevant Building Code clauses:**

- NZBC G6 (Airbourne & Impact Sound):
- NZBC H1/AS1 (Energy Efficiency): clause H1/AS1 2.1.1.1 & 2.1.1.1 (a)
- NZBC C (Protection from Fire): clause C/AS2 4.16.2.
- FRL & FRR-/240/30 and FD240.

**Statement on how the building product is expected to contribute to compliance:**

- NZBC G6: Reducing the amount of sound that passes through a door set is a common application for Raven door seals. Sealing door gaps is of prime importance when helping to reduce the amount of sound entering or leaving a room or building. Unlike air, where the amount flowing through a gap changes in proportion to the gap size, sound waves move through these gaps with little loss. Consequently, small gaps around a doorway can let through nearly as much sound as an open door. Because of this, any small clearances not sealed can reduce the effectiveness of a solid core door or acoustically engineered door or partition.
- NZBC H1/AS1: Weather and energy door and window seals are designed to prevent draughts, rain water infiltration and energy loss through external doors. Raven produce a variety of seals to suit even the most severe weather conditions that can also significantly improve the thermal efficiency of a building by preventing energy loss up to 50%.
- NZBC C: Raven pioneered smoke door sealing systems, their design effectively reduces smoke leakage around the door margins of smoke door including applications that require fire rated door assemblies. Raven sealing systems comprise perimeter seals, meeting stile seals and door bottom seals. All are tested and certified to the applicable Australian and international standards.

**Limitations on the use of the building product:**

- The minimum and maximum gap between the door leave and the door stop has to be between 0-6mm
- Raven, RP87Si has to be installed on the head and jambs of single and double butt hinged doors.

**Design requirements that would support the appropriate use of the building product:**

Note: If fixing to rebated frames of single doors, specify a long backset door latch.  
Location: Head and jambs of single and double butt hinged doors.  
Min/Max Gap: 0mm to 6mm.

**Installation requirements:**

- ➔ Paint frame first before fitting the RP87Si door seal.
  - ➔ If a face mounted door bottom seal is to be fitted, fit the RP87Si door seal to the door frame first.
  - ➔ The RP87Si door seal joints should be butt jointed. If fitting to steel door jambs use 1" x 8 gauge self drilling pan head screws (not supplied) as mortar behind jambs may cause difficulties with long screws.
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1. Slide off the aluminium coverstrip. Measure the required seal assembly length. Machine cut the seal assembly length. Machine cut the seal assembly to length being careful to miss adjustment screws. Cut silicon seal and foam gasket with a sharp utility knife.
  2. With the door closed, position the seal at the head of the door. Note: Adjustable innersection will take up any door inaccuracies. The door should rest against the RP87Si gasket lightly. Screw fix squarely to frame in every hole. Note: Screw fix firmly but do not over tighten. For best results use the minimum torque setting to seat screw all the way home. Overtightening may make the coverstrip difficult to fit.
  3. Proceed to fit vertical seal assemblies. Remove the black plastic coverstrips.
  4. Measure the required length of the aluminium coverstrips. Machine cut to length. Fit head aluminium coverstrip and then vertical aluminium coverstrips. Make sure hook of coverstrips is firmly seated before snapping other end.
  5. Test the RP87Si for correct fitment by inserting this sheet of paper between the door and the door seal. The seal should just hold the paper firmly. To adjust sealturn adjusting screw anti-clockwise to increase seal pressure and clockwise to decrease seal pressure.
  6. Open and shut the door to check for correct latching. Snap the black plastic coverstrips by hand or lightly with a rubber mallet.

**Maintenance requirements:**

N/A

**Is the building product/building product line subject to warning or ban under section 26 of the Building Act 2004?:**

No

**If yes, description of the warning or ban under section 26:**

N/A

**Version**

Ver: 1.00

**Date:**10<sup>th</sup> Oct. 2023