

# Class 1 Building Product Information Sheet

**Product Name:**

Raven, Door Frame / Perimeter Seal, RP23

**Product Description and its intended use:**

A S.E EPDM compression seal ideal for smoke and weather applications on butt hinged doors. Can be mitred or butt jointed for a neat finish. Its aluminium carrier is sturdy and slotted for adjustment with concealed fixings. It is quick and easy to install on door stops around the jamb and head and can be fitted without removing the door. Can be used on all four sides of the door to form a bulk head seal.

Note: A built up sill similar in profile to the stops will be required for bulkhead applications.

**Location:** Head and jambs of single and double butt hinged doors or bulk head applications.

**Min/Max Gap:** 0mm to 7mm.

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

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

**Seal:** RP323. Black EPDM (SE).

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

**Product Identifier:**

Raven, RP23

**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-/240/60 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 0-7mm
- Raven, RP23 has to be installed on the head and jambs of single and double butt hinged doors or bulk head applications.

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

Location: Head and jambs of single and double butt hinged doors or bulk head applications.  
Min/Max Gap: 0mm to 7mm..

**Installation requirements:**

If a face mounted seal is to be fitted, fit the RP23 to the door frame first (user determined). If fixing to rebated frames of single doors, a long backset door latch is necessary. Precise cutting measurements are important particularly at the corner joints.

1. Remove coverstrip and peel gasket back from adhesive when machine cutting to size. This avoids gasket damage. Machine cut the aluminium to size.
2. Cut gasket and coverstrip to size with a stanley knife.
3. With the door closed and the cover strip removed, position the seal at the head of the door first. The door should rest lightly against the RP23 gasket. Lightly screw fix in the centre of every adjusting slots. Proceed to fit the seals.
4. Shut the door and adjust the seal to ensure a consistent seal all around. A tight seal is not necessary. The door should just firmly hold this sheet of paper to ensure a perfect seal.
5. Open and shut the door to check for correct latching. Tighten all fixing screws.
6. Push in the seal cover strip.

**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