

# Class 1 Building Product Information Sheet

**Product Name:**

Raven, Door Frame / Perimeter Seal, RP24

**Product Description and its intended use:**

Granted and Australian Design Award, the RP24 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 RP24 utilises independently adjustable screws to achieve up to 8mm sealing adjustment for maximum noise control. The closed cell S.E. EPDM 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 doors.

**Min/Max Gap:** 0mm to 8mm.

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

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

**Seal:** RP338. Black closed cell sponge EPDM (SE).

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

**Product Identifier:**

Raven, RP24

**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 0-8mm
- Raven, RP24 has to be installed on the head and jambs of single and double butt hinged doors for maximum acoustic and smoke performance

**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 8mm

**Installation requirements:**

If a face mounted seal is to be fitted on the bottom of the door, fit the RP24 doorseal to the door frame first. The RP24 doorseal joints should be butt jointed. If fitting to steel door jambs use ½" x 8 gauge self tapping screws, (not supplied) as mortar behind jambs may cause difficulties with long screws.

1. Remove the black plastic and anodised aluminium coverstrips. Measure the required seal assembly length being careful to miss adjustment screws. Cut EPDM seal and foam gasket with a sharp wet knife.
2. With the door closed, position the seal at the head of the door. Note: Adjustable inner section will take up any door inaccuracies. (Step 4) The door should rest against the RP24 gasket lightly. Screw fix squarely to frame in every hole. Proceed to fit vertical seal assemblies.
3. Measure the required length of the coverstrips. Machine cut to length. Fit head aluminium coverstrips and then vertical aluminium coverstrips.
4. Test the RP24 for correct fitment by inserting this sheet of paper between the door and the doorseal. The seal should just hold the paper firmly. To adjust seal turn adjusting screw anti-clockwise to increase seal pressure and clockwise to decrease seal pressure.
5. Open and shut the door to check for correct latching. Snap in 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