

Class 1 Building Product Information Sheet

Product Name:

Raven, Automatic Door Bottom Seal, RP8Si

Product Description and its intended use:

A concealed, automatic door bottom seal that is spring loaded to lift clear of the floor when the door is opened. It is acoustically designed, featuring silicon gaskets for medium temperature smoke and fire door applications. Operated automatically by pressure against the door jamb on its adjustable strike. RP8Si can also be fitted into the bottom rail of a metal door by the fabricator. Has a level adjustment to achieve an optimum seal.

Location: Fully morticed into a 15mm x 34mm groove into the bottom (or top) of single and double butt hinged timber and metal doors.

Min/Max Gap: 3mm to 13mm.

Finish: Satin clear (silver), bronze or black anodised aluminium (15µm).

Fixing: Concealed screw fix with colour matched stainless steel escutcheon plates and screws supplied.

Seal: RP308Si. Grey silicon rubber (SE).

Sizes: 1500mm, 1220mm, 1070mm, 920mm, 820mm, 600mm, 380mm to 295mm (min). Seals cut back to exact size.

Product Identifier:

Raven, RP8Si

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 3mm-13mm
- Raven, RP8Si has to be installed on fully morticed into a 15mm x 34mm groove into the bottom (or top) of single and double butt hinged timber and metal doors.

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

Seal to be fully morticed into a 15mm x 34mm groove into the bottom (or top) of single and double butt hinged solid core timber doors, and metal doors.

Installation requirements:

CONCEALED INSTALLATION WITHIN HOLLOW BOTTOM RAIL OF BUTT HINGED ALUMINIUM DOORS, BOTH SINGLE AND DOUBLE.

1. Remove door – cut out metal in stiles, so that the seal mounts on indie face of bottom rail. Seal should be on face furthest from hinge pin.
2. Drill holes in stiles; Lock side to suit 6 guage x 12mm screw. Hinge side 12.0mm dia. For adjustable block.
3. Machine cut seal to exact length between inside faces of stiles. Shorten inner section of seal 1mm more each end to allow operation clearance.
4. Insert seal bottom rail. Adjustabe block will protrude through drilled hole. Push other end seal into bottom rail. Screw in screw so shank of scre supports seal housing.
5. Adjust seal travel to make full contact with sill. To adjust seal travel pull out adjustable block to clear aluminium housing. Firmly holding metal threaded rod, turn adjustable block clockwise to reduce seal travel. NB. To compress seal is not necessary since this will increase seal wear.
6. The seal is factory set to seal a door bottom that is parallel with the floor. To adjust, screw level adjustment screw located on latch side of door. The seal will need to be removed to make this adjustment.

TIMBER DOOR INSTALLATION

1. Remove door and machine mortice bottom of door 34mm x 15mm.
2. Measure door width.
3. Machine cut unit leass 1mm for operating clearance if mounting plates are not rebated, less 3mm if rebated. Shorten inner section of seal 1mm more each end for free travel up and down,
4. Fit seal into groove with adjustable block on hinged side of door and secure mounting plate with screw provided, making sure tongue is firmly supporting seal housing.
5. Re-hang door and position striker buttom where adjustable block meets door jamb. Close door and observe seal travel.
6. Adjust seal travel to make full contact with sill. To adjust seal travel pull out adjustable block to clearaluminium housing. Firmly holding metal threaded rod, turn adjustable block clockwise to reduce increase seal travel. NB. To compress seal is not necessary since this will increase seal wear.
7. The seal is factory set to seal a door bottom that is parallel with the floor. To adjust, screw level adjustment screw located on latch side of door.

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:

10th Oct. 2023