

Using This Catalogue



The Problem

For doors and windows to function, they must have gaps between their edges and the frame to allow for easy operation and to accommodate normal building movement.

However, these gaps can allow the intrusion of draughts, dust, insects, rain, noise, vermin, fire, smoke or bushfire embers. Unsealed doors and windows allows the leakage of heating and cooling which significantly increases energy costs and reduces the energy efficiency of other design elements of a building.

The Solution

The solution is to fit a Raven sealing system which seals the gaps around doors and windows against a combination of intrusions and leakages. Properly selected and installed, a complete and continuous seal can be achieved for all door and window types without impeding their normal use.

Optimum "sealing systems" can be achieved by combining the appropriate Raven door bottom seals, threshold plates, perimeter seals and meeting stile seals.

Product Selection

When choosing Raven sealing systems, you should consider:

- What type of protection is required?
- What type of door or window do you want to seal?
- Does it provide protection without impeding normal door or window function?
- Is it compatible with other door or window hardware?
- What type of duty is required?
- Is it for an external, internal, residential or a commercial situation?
- What are the building code requirements?

Duty Levels

Icons have been used to assist specifiers and builders to select the right duty level to meet the expected duty cycle for each building class.



Light Duty

Generally used in residential and light traffic areas such as Class 1 – 4 Buildings.



Medium Duty

Generally used in commercial and medium traffic areas such as Class 3 – 6 Buildings.

- Office spaces
- Shops
- Commercial accommodation



Heavy Duty

Generally used in heavy pedestrian and wheeled traffic areas such as Class 5 – 10 Buildings.

- Public hospitals
- Airports
- Factories
- Shopping centres

Applications

Icons have been used to help identify appropriate seals for various applications to make product selection easier. All seals are designed to meet most standards and in most cases, perform more than one function. Refer to [page 122](#) for details.



Weather



Energy, Draughts and Dust



Light



Insects and Vermin



Antimicrobial

Raven gaskets and cover strips contain antimicrobial compounds. Independently tested against E. Coli, Strep and MRSA.



Ambient (Cold) Smoke

Temperatures up to 70°C.



Medium Temperature Smoke (NCC Spec. C3.4)

Temperatures of 200°C for 30 minutes (smoke doors).



Fire and Hot Smoke

Fully developed fires exceeding 600°C (intumescent seals).



Fire (Approved)

In accordance with AS/NZS 1905.1.



BAL - LOW

Bushfire Attack Level in accordance with AS 3959.



Up to BAL - 29

Bushfire Attack Level in accordance with AS 3959.



Up to BAL - 40

Bushfire Attack Level in accordance with AS 3959.



Up to BAL - FZ (Flame Zone)

Bushfire Attack Level in accordance with AS 3959.



Noise – Acoustic



Access and Mobility

Materials Specifications

Many seals consist of two parts; the aluminium extrusion and a flexible seal insert. Some seals also incorporate a cover strip to conceal fasteners.

Aluminium extrusions are alloy 6060 T5 or T6, anodised satin clear (silver) or medium bronze unless otherwise specified. Architectural perimeter seal extrusions are anodised 15µm and threshold plates are anodised 25µm for maximum durability.