

The Nature of the Problem

For doors or windows to function, they must have gaps between their edges and the frame. These gaps are there to allow easy opening and closing and to accommodate normal building movement.

However, these gaps can also allow the intrusion of;

- sound
 - fire and smoke
 - rain
 - cold draughts, dust and embers
 - light
 - insects and vermin,
- and also the leakage of energy;
- heating
 - air conditioning.

The Solution

The solution is to fit a Raven Sealing System which seals the gaps around doors and windows when closed. The seals are frequently multi-purpose, sealing against a combination of these intrusions and leakages. Properly fitted, they can provide a complete and continuous seal for all door and window types, that will not impede normal use.

Sealing System

Since the 1960's Raven has developed seals for door frames and when installed with complimentary seals for the threshold and meeting stiles, will produce optimum "Sealing Systems".

Raven have tested and proven these systems in the field and under laboratory conditions against sound, weather, smoke, and fire.

More information regarding these systems is listed under the relevant sealing section of this catalogue. The latest Raven Pdf interactive catalogue is also available for download from the web site.

Duty Levels

Raven seals have been designed to accommodate a variety of duty levels, classified in this catalogue as light, medium and heavy.

L Light duty seals include those typically used in residential applications or light traffic areas.

M Medium duty seals are used in commercial applications such as office spaces, shops, commercial accommodation or medium traffic areas.

H Heavy duty seals are designed for areas with a high level of use such as public hospitals, airports, factories, shopping centres or areas with a large through-flow of pedestrian and wheeled traffic.

Icons and Symbols

Throughout, icons and symbols have been used to readily identify and make product selection easier.

All seals are designed to meet most codes or standards and in many cases perform more than one function.



Acoustic - Noise



Ambient (cold) Smoke
up to 70°C



Medium Temp. Smoke
200°C for 30 minutes
(Smoke Doors)



Fire & Hot Smoke
Fully developed fires
exceeding 600°C and
hot smoke beyond 200°C
(Intumescent Fire Seals)



Insects and Vermin



Weather



Energy, Draughts & Dust



Fire
(approved)



Access and Mobility



Light

Adjustability

Many Raven seals have some degree of adjustability and can be adjusted without removing the door or window. Thus maximum efficiency can be maintained in the event of minor building movement.

Door Seal Sizes

Raven seals are available in Stock lengths and Standard Door Set sizes (refer Price List).

Door Sets

Some rigid perimeter seals are pre-cut to various sizes for single and double doors as listed. (mm)

Single:	1x1000 2x2100
Double:	3x2100
Long Single:	1x1000 2x2750
Long Double:	1x2000 2x2750

Illustrations

The cross-section profiles in this catalogue are drawn to full scale. Note: Owing to slight variations in extrusions, minor differences may occur.

CAD

Detailed drawings and specifications of all Raven seals are available to registered users from the architectural link at our website www.raven.com.au.

Specification

Specify Raven catalogue model number, finish required, preferred configuration of installation and reference to manufacturer's fittings, standards and guarantee.

Storage

Raven seals should be stored flat in a clean dry area away from excessive heat.

Maintenance

Periodic inspection, adjustment and cleaning is recommended for all styles of systems. Normally an annual inspection is sufficient. For fire and smoke sealing applications, refer to local regulatory authority standards. Refer page 10.

The aluminium seals in this catalogue essentially consist of two parts: the aluminium carrier and a flexible seal insert.

Dependent on function, these inserts can be;

- solid and closed cell EPDM (synthetic rubber)
- flexible or rigid PVC
- nylon brush filaments
- polypropylene pile
- silicon rubber
- TPR (TPE) (Synthetic Rubber).

Many Raven seals also incorporate a cover strip which conceals the fasteners.

Materials

Aluminium Extrusions are B6060 T5 or T6 anodised satin clear or medium bronze unless otherwise specified.

(See finishes next page)

PVC

Raven proprietary grade PVC flexible & rigid extrusions: Highest quality available. Added UV inhibitors. Self Extinguishing grade. Service temperature - 5°C to 70°C.

Silicon Rubber

Raven proprietary grade extruded silicon rubber withstands very high temperatures. Conforms to **BCA Spec. C3.4**, "Smoke Doors 200°C for 30 minutes" Service temperature - 60°C to 230°C. S.E. (Self Extinguishing) where indicated.