RAVEN®

Door & Window
Sealing Systems

International Product Catalogue 118

Weather and Energy
Fire and Smoke
Noise - Acoustic
Light
Insects - Vermin

raven.com.au

70+ YEARS SINCE 1950

ISO 9001 SYSTEM CERTIFICATION SGS
Cert. No. AU96/678

JAS-ANZ

RAVEN®

Raven Products Pty. Ltd.

Head Office and Factory
18 - 22 Aldershot Road
Lonsdale, South Australia 5160
Australia

PO Box 67
Lonsdale, South Australia 5160
Australia

T +61 8 8384 5455

Sales Enquiries
T 1800 888 123 Free call anywhere in Australia
E sales@raven.com.au

Technical Advice
E tech.advice@raven.com.au

raven.com.au

Accredited

IDWL INTERNATIONAL DOOR & WINDOW LABORATORIES

NATA Accreditation

ilac-MRA

International Door and Window laboratories Pty Ltd is NATA accredited for weather testing and smoke testing of doors and windows.

Associated Members / Certified with

SYSTEM CERTIFICATION ISO 9001 SGS
Cert. No. AU96/678

GLOBAL GREENTAG VERIFIED Eco-Preferred trust brands
RAV:001:2021:MV

certifire
CF 5710

CLASSIFIED UL
R37913

NATSPEC ProductPartner

FPA AUSTRALIA GOLD MEMBER Fire Protection Association Australia

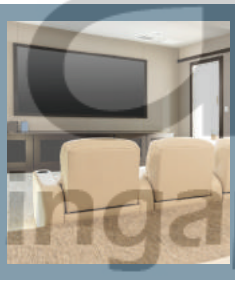
ADHA Architectural Door Hardware Association

General

Weather and Energy

Health and Aged Care

Fire and Smoke



Noise - Acoustic

Door Bottom Seals Threshold Plates

Door Frame / Perimeter Seals

Other Products

Celebrating Over 70 Years

Established in 1950, Raven Products is an Australian family owned and operated company that pioneered the door and window seal industry in Australasia. Raven has grown to become one of the most trusted brands in the building hardware industry providing innovative, quality tested and certified door and window sealing systems for architects, designers, engineers and builders.

The Raven brand is synonymous with quality, value and service which is why Raven is the brand that is consistently relied on and recommended here in Australia and overseas.

Raven offer a tested and certified range of door and window sealing systems for the containment of energy and the exclusion of noise, fire, smoke, vermin, insects and bushfire embers.

As a world leader in its field with products distributed across the globe, Raven's founding principals have always remained true - to provide the best products at the best price supported by the best service.

Service and Advice You Can Trust

When architects, engineers and builders are faced with door and window sealing challenges in design, compliance or function, they turn to Raven.

With a long list of patents and design registrations, Raven has developed much of the technology and led many of the advances in weather, acoustic, fire and smoke sealing systems. This is why you can rely on Raven for the best advice – after all, this is how many of our innovative products were born.

We have a team of specialists on-hand to provide expert advice to assist with developing the most suitable and cost effective solutions to even the most challenging problems. With over 70 years in manufacturing and supporting the building industry, Raven remains at the forefront; Raven understands its complexities, challenges and creative requirements.

For informative and professional support, please telephone 1800 888 123 or email our technical assistance team at: tech.advice@raven.com.au.

Solutions on Your Doorstep

With modern despatch centres in Australia and Asia, we can deliver tailored sealing systems around the corner or across the globe. Raven's advanced ISO 9001 quality management production systems can build and deliver colour matched products weeks ahead of other manufacturers.

Our network of distributors and transport systems can deliver anywhere in the world from desert mining sites in outback Australia, mid ocean oil and gas rigs, Antarctic research stations to the bustling cities of London, Dubai or Shanghai.

So when you call on Raven to deliver the ideal sealing system – you can be sure that's exactly what we will do.

Our Name is Your Guarantee

We will never put our name to a product until we are fully satisfied that it is not just easy to fit and highly durable, but it can withstand the appropriate extremes and complies with the latest building code regulations and standards.

Our name and 70+ year reputation is your guarantee of reliability and quality.

Quality Control That Sets New Standards

Our commitment to quality extends from research, development and testing through to manufacture, delivery, ease of application, durability and after sales service regardless of the project size or complexity.

With a professional team of engineers, designers and international certified testing facilities; Raven is the brand that architects, designers, engineers and builders can rely on.

Every Raven seal is rigorously assessed and tested to meet the most demanding Australian and international standards, including life cycle performance from the prototype phase and construction through to batch testing of the final manufactured product. Raven maintains control over every aspect of its range carefully selecting materials and suppliers to ensure a superior end product. We also take our environmental responsibility just as seriously, operating to environmental ISO 14001 standards.

Raven's focus on innovation has provided sealing solutions for the building industry for decades. Our commitment to our products has meant the development of:

- NATA accredited laboratory testing facilities to Australian and international standards
- ISO 9001 Quality Management System accreditation
- Operates to ISO 45001 OHS Management
- Operates to ISO 14001 EMS
- Global GreenTag verified
- Australian design awards
- A library of patents and design registrations

Cert. No. AU96/678

RAV:001:2021:MV

International Research and Development

Our enduring commitment to innovation and quality keeps Raven at the industry forefront, by providing effective performance driven sealing systems that meet or exceed our clients' expectations.

Raven's international research, product development and testing facilities means we are constantly developing new and innovative ways to respond to the rapid advances in the building industry. Our specialist research and development engineers work tirelessly to meet the ongoing needs of the building industry often pre-empting new challenges and providing innovative products to suit. All Raven products are designed to comply with international building regulations and requirements. Continuous monitoring and accreditation to international quality standard ISO 9001 underscores the company's determination to deliver products that are proven to be the best.

Actively identifying advances in the industry, Raven is at the forefront, developing the technology and the products to suit. We see our role not just to design and manufacture a quality product but also to assist architects, engineers and builders to help improve building design and safety while reducing construction costs where possible.

Internationally Accredited Testing

Compliance and Certification

Designed to meet or exceed Australian, New Zealand and European standards and building codes, Raven offer a tested and certified range of door and window sealing systems for the containment of energy the exclusion of noise, weather, insects, vermin, fire, smoke and bushfire embers.

Don't put your project at risk with products that only claim Deemed-to-Satisfy. This means they may not have undergone the same rigorous laboratory testing and certification processes as Raven.

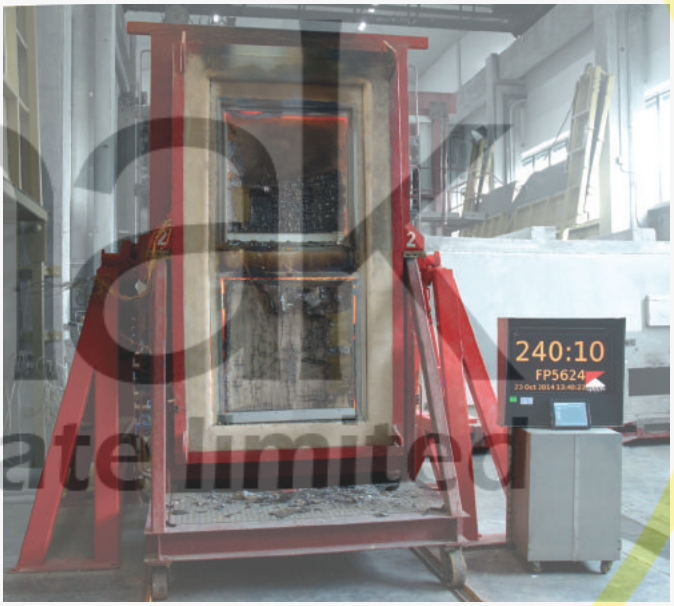
With in-house NATA accredited testing facilities, Raven's design and engineering team can quickly develop new and innovative ways to respond to the advances in the building industry here and around the world. Our array of patents and numerous design awards stand as testament to this commitment.

You can rest easy in the knowledge that Raven will provide you with the most tested and compliant systems available on every project.

Internationally Accredited Testing

Raven door and window seals are tested and certified by internationally recognised accredited laboratories, including but not limited to, IDWL, CSIRO, BRANZ, Warringtonfire, and UL. Seals undergo weather, acoustic, fire and smoke testing to verify their conformance to national and international codes and regulations.

Weather testing is performed in a NATA accredited laboratory that sees door and window assemblies pelted with rain and wind pressures up to 300km per hour - that's cyclonic conditions! Weather tests on door and window assemblies are conducted in accordance with AS 2047 and AS/NZS 4420 series Standards.



A state-of-the-art acoustic laboratory tests Raven sealed door sets to EN ISO 10140 series Standards with ratings to ISO 717-1.

Fire tests are performed by internationally recognised fire laboratories to Australian and international standards AS 1530.4, EN 1634-1, BS 476 Pt. 20 & 22 and UL 10C.

NATA accredited laboratories test Raven seals on solid core smoke doors and fire rated door assemblies to ambient and medium temperature smoke at 200 degrees Celsius in accordance with AS 1530.7 and EN 1634-3 series Standards.

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.

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

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

- Office spaces
- Shops
- Commercial accommodation

H **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 130 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.

Using This Catalogue

Aluminium Finishes*

Clear Anodise | Bronze Anodise | Black Anodise

*While great care has been taken to ensure the accuracy of the colours above, they may not match the actual product finishes due to variations in digital displays and print production.

Dependent on function, seal inserts can be:

- **Nylon brush filaments** - Raven nylon brush has UV inhibitors, is self-extinguishing and conforms to NCC Spec. C3.4, "Smoke Doors 200°C for 30 minutes". Flammability index of 1 where indicated.
- **Polypropylene pile** - has UV inhibitors.
- **Rigid or flexible PVC** - Raven proprietary PVC, flexible and rigid extrusions have UV inhibitors, are self-extinguishing where indicated and have a service temperature of -5°C to 70°C.
- **Silicon rubber** - Raven proprietary silicon rubber has UV inhibitors and withstands very high temperatures conforming to NCC Spec. C3.4, "Smoke Doors 200°C for 30 minutes". They are self-extinguishing with a flammability index of 1 where indicated with a service temperature of -60°C to 230°C.
- **Solid and sponge EPDM** - Raven proprietary EPDM extrusions are designed to withstand the rigours of compression, heat, cold, water, ozone, UV light, abrasion and ageing. With exceptional memory meaning they will resume their original shape even after long periods of compression, they are classified to self-extinguishing / burn rate SAE J 369, ISO 3795 where indicated and have a service temperature of -40°C to 70°C.
- **TPE** (Thermo-Plastic Elastomer) Raven proprietary TPE has similar performance characteristics of EPDM. Raven TPE has added UV inhibitors and a flammability index ≤5 where indicated. TPE has a service temperature of -40°C to 100°C.

Fixing

The majority of Raven seals are fastened using supplied zinc plated, self-tapping, cross recess head screws of the appropriate size and colour. Fixing holes are usually pre-drilled and many are slotted to allow for accurate fitment and compensation for building movement.

Painted Finishes

Raven Polyester Enamel (P.E. Paint) finish can be colour matched to virtually any colour sample for the aluminium extrusion component. P.E. Paint is a two pack polyester enamel colour match finish which outperforms most finishes including powder coating in the critical areas of colour choice, durability, flexibility and hardness. P.E. Paint is available at an extra cost and requires an additional lead time.

Storage & Maintenance

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

Annual or periodic inspection, adjustment and cleaning is suggested for all styles of door and window seals. For fire and smoke sealing applications, refer to page 130 for standards and authorities.

Specifying Raven Seals

To avoid product substitution it is important to quote the brand name "Raven", the product model number, finish, preferred system configuration and reference to the Raven material specification, standards and guarantee, refer to page 137.

NATSPEC Product Partner

To further assist in creating a Raven product specification, Raven is a product partner with NATSPEC providing clear and easy to use specification templates natspec.com.au.

Green Specification

Raven Products is verified and listed with the internationally respected organisation Global GreenTag Intl. Pty Ltd, formerly EcoSpecifier.

The Raven verified product listing will assist specifiers when selecting environmentally helpful and sustainable products and obtaining green building credits globalgreentag.com.

CAD

Detailed drawings and specifications of all Raven seals are available to registered users from the Architectural Door and Window Seal link at raven.com.au.

Please note: illustrations in this catalogue may not be to scale. Slight variations in extrusions may occur but these minor differences are nominal.

The latest information about Raven, including a PDF version of this catalogue is available from the Raven website raven.com.au.

Product Information

Raven seals are available in stock lengths and standard door set sizes. Some rigid perimeter seals are pre-cut to suit standard door sizes (mm):

- Single – 1 x 1000 & 2 x 2100
- Double – 3 x 2100
- Long single – 1 x 1000 & 2 x 2750
- Long double – 1 x 2000 & 2 x 2750

Ordering

The Raven Architectural ranges of seals shown in this catalogue are available to order from specialist, Architectural Door Hardware distributors that are located in many countries.

Raven architectural distributors can assist you with product sizes, finishes, pricing and delivery information in your area.

When ordering, quote how many units, the brand "Raven", model number, description, unit length and the standard finish as detailed in the catalogue, e.g. Six only "Raven RP38 door bottom seals, 920mm, clear anodised".

Important: For rigid perimeter seals, always try to order in door set sizes or the shortest seal length available. Long rigid lengths if ordered in small quantities, whilst well packaged, are more prone to bending during transit.

All fasteners and fitting instructions are enclosed with each product. Raven seals are suitably packaged and protected with recyclable materials.

Special Order Paint finishes

P.E. Paint is available at an extra cost and requires additional lead time. Conditions apply. Please quote the brand, colour number and finish description.

Returns and Allowances

No product returns are accepted without prior written permission. Conditions apply.

Weather and Energy

NCC Class 1 - Class 10 Buildings (residential, public buildings, shop fronts, apartments, hotels, factories and hospitals)

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%.

In addition, Raven door bottom and perimeter seals can also be used in conjunction with threshold plates and astragal seals to prevent the ingress of dust, insects and rodents and wind-blown embers in bushfire prone areas.

Raven have a large range of weather – energy sealing systems tested and certified to meet building code regulations as well as meeting the applicable Bushfire Attack Level (BAL) requirements in bushfire prone areas.

National Construction Code (NCC) Requirements

Commercial

Class 2 to Class 9 buildings

J3.4 Windows and doors

(a) A door, openable *window* or the like must be sealed—
  (i) when forming part of the *envelope*; or
  (ii) in *climate zones* 4, 5, 6, 7 or 8.

(b) The requirements of (a) do not apply to—
  (i) a *window* complying with AS 2047; or
  (ii) a fire door or smoke door; or
  (iii) a roller shutter door, roller shutter grille or other security door or device installed only for out-of-hours security.

(c) A seal to restrict air infiltration—
  (i) for the bottom edge of a door, must be a draft protection device; and
  (ii) for the other edges of a door or the edges of an openable *window* or other such opening, may be a foam or rubber compression strip, fibrous seal or the like.

(d) An entrance to a building, if leading to a *conditioned space* must have an airlock, *self-closing* door, *rapid roller door*, revolving door or the like, other than—
  (i) where the *conditioned space* has a *floor area* of not more than 50 m^2; or
  (ii) where a café, restaurant, open front shop or the like has—
    (A) a 3 m deep un-conditioned zone between the main entrance, including an open front, and the *conditioned space*; and
    (B) at all other entrances to the café, restaurant, open front shop or the like, *self-closing* doors.

(e) A loading dock entrance, if leading to a *conditioned space*, must be fitted with a *rapid roller door* or the like.

Residential

Class 1 and Class 10 buildings

3.12.3.3 External windows and doors

(a) An external door, internal door between a Class 1 building and an unconditioned Class 10a building, openable window and other such opening must be sealed when serving—
  (i) a conditioned space; or
  (ii) a habitable room in climate zones 4, 5, 6, 7 and 8.

(b) A seal to restrict air infiltration—
  (i) for the bottom edge of a door, must be a draft protection device; and
  (ii) for the other edges of a door or the edges of an openable window or other such opening, may be a foam or rubber compressible strip, fibrous seal or the like.

(c) A window complying with the maximum air infiltration rates specified in AS 2047 need not comply with (b)(ii).

Ember Attack - BAL Ratings

Where door sets are being specified in Bush Fire Prone areas, door seals, weather stripping and draught excluders are required to meet AS 3959 to comply with the NCC. The BAL rating is determined by the site location and the attributing factors for bushfire attack to which AS 3959 gives guidance. Attention needs to be paid to specifying to the correct BAL rating as determined by AS 3959. Refer to the selection table on page 29.

Related Building Codes

There are several standards, which refer to seal properties and testing for weather - energy:

AUS / NZ

Requirements are noted in the Australian National Construction Code (NCC) and New Zealand NZ BC Compliance Doc. H.

UK / EU

Requirements are noted in the British Building Regulations Approved Document L1 & L2.

USA

Requirements are noted in the Building Code and the Residential Code IBC 2000.

For further details, refer to Standards / Authorities on page 130.

Weather and Energy - Sealing Systems

Butt Hinged Doors

RAVEN

Timber Butt Hinged Doors

Effective combinations of seals for weather proofing butt hinged timber doors, inward or outward opening.

Illustrations show inward opening door configurations.

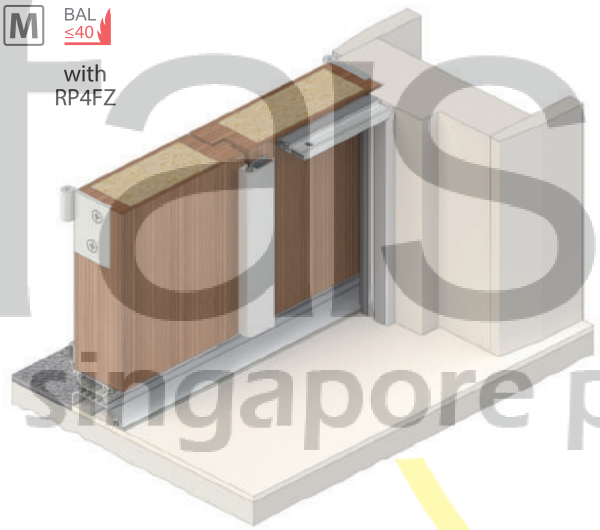
Commercial Aluminium Shop Front Doors

An effective weather - energy sealing system with disabled access for commercial shop fronts.

RP78Si RP4 RP16Si

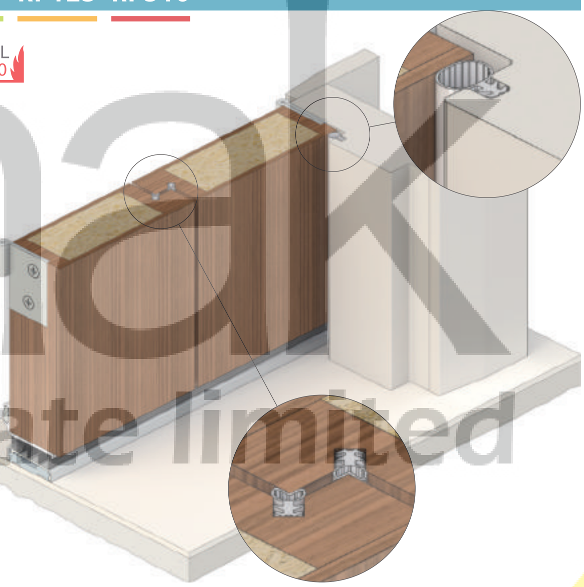
M BAL ≤40

with RP4FZ



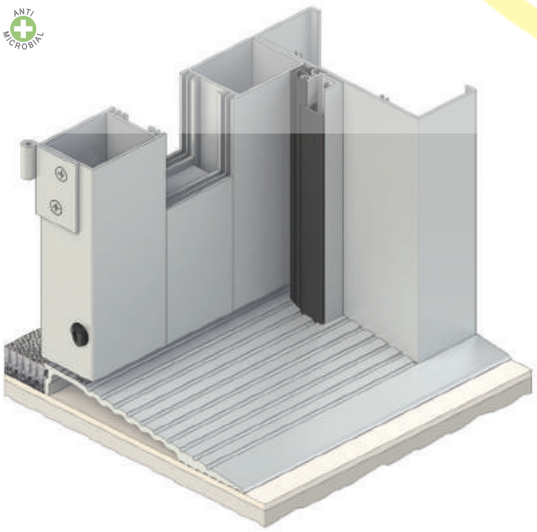
RP520 RP123 RP510

M BAL ≤40



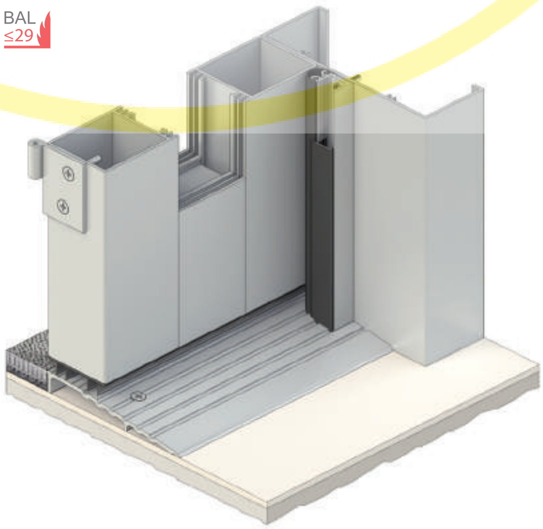
RP10 RP8Si RP98

H ANTI MICROBIAL



RP84Si RP89 RP77

M BAL ≤29



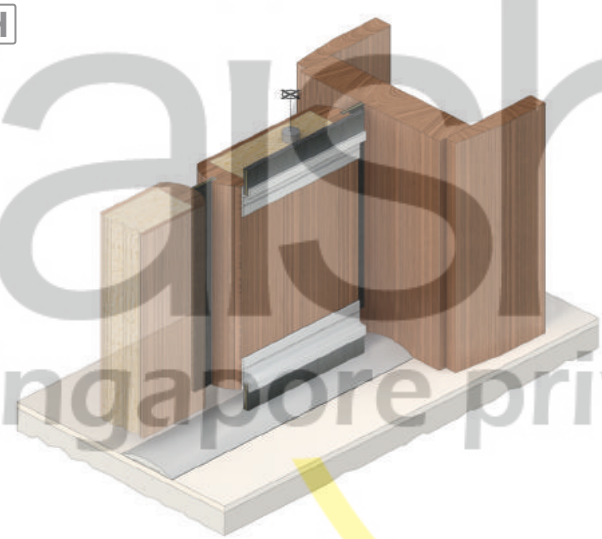
DOOR FRAME / PERIMETER SEAL | DOOR BOTTOM SEAL | ASTRAGAL | THRESHOLD PLATE SEAL | THRESHOLD PLATE

Timber and Aluminium Pivot Doors

Single and double acting doors present one of the more difficult sealing problems. When a centre pivot hung door is opened, it must be considered that the leaf is travelling in two directions at once. That is to say, if a door is opened out, then that portion between the pivot and the jamb will be opening inwards. The same applies to the head of the door which means compression seals are not always practical. Sweep seals are the most effective solution in the form of brush strip strips or fins and bulb profiles made from PVC, TPE or silicon rubber to suit.

RP74F RP74F RP52F RP82

H

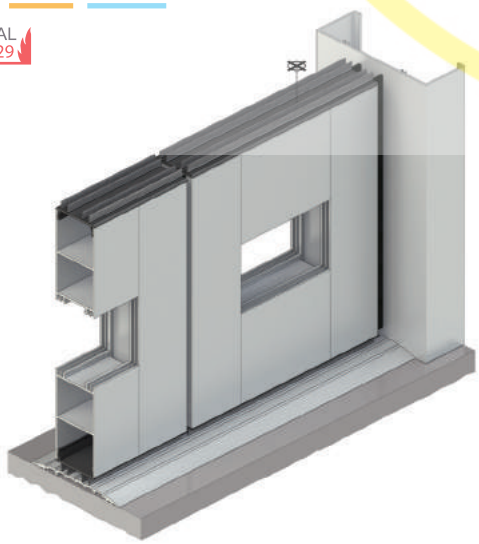


RP130Si RP129Si RP130Si RP115

H BAL ≤40

RP89 RP89 RP116

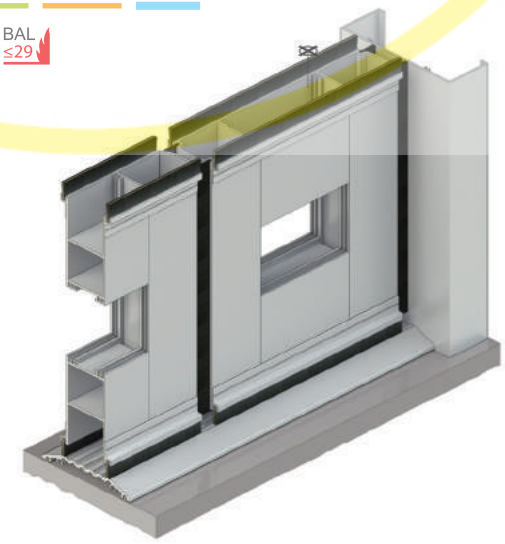
M BAL ≤29



Note: Vertical stile pile weather stripping supplied by fabricator.

RP74F RP74F RP19

H BAL ≤29



Note: Vertical stile pile weather stripping supplied by fabricator.

Sliding Doors

Sliding doors present many different sealing problems due to various types and configurations, from residential to industrial.

Effective seals for these applications are brush strip seals, sweep seals and threshold plates.

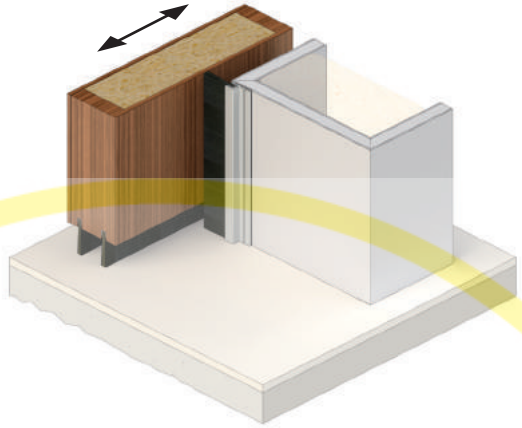
Garage Doors

Panel-lift and roll-up garage doors present many different sealing problems due to various types and configurations, from residential to industrial.

Effective seals for these applications are brush strip seals, sweep seals and threshold plates.

RP2a RP52F

H BAL ≤29



RP74F RP74F

H BAL ≤29

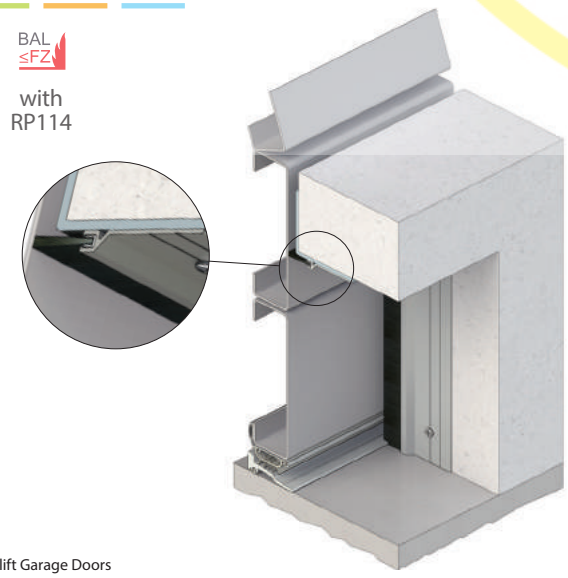
RP73 RP17b

L

RP41 RP4T RP91

H BAL ≤FZ

with RP114

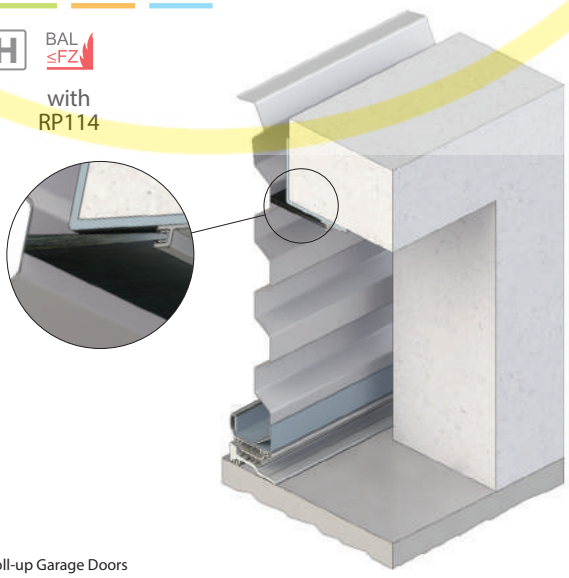


Panel-lift Garage Doors

RP57 RP4T RP91

H BAL ≤FZ

with RP114



Roll-up Garage Doors

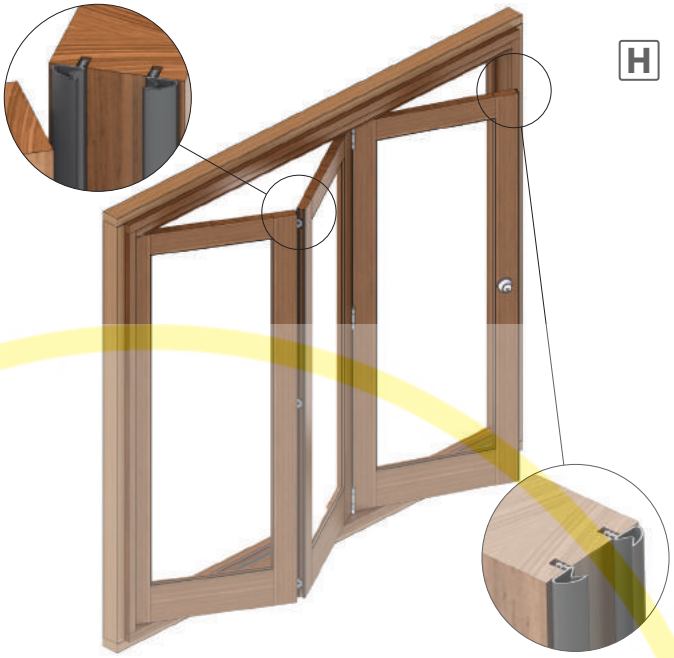
Weather and Energy - Sealing Systems

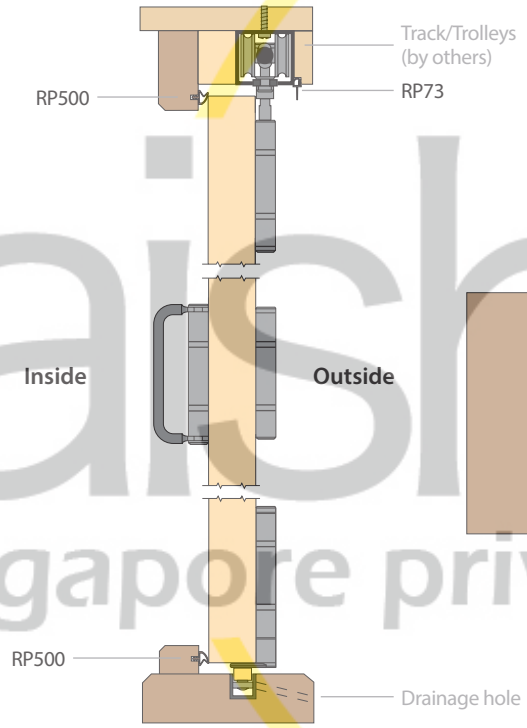
Folding Doors

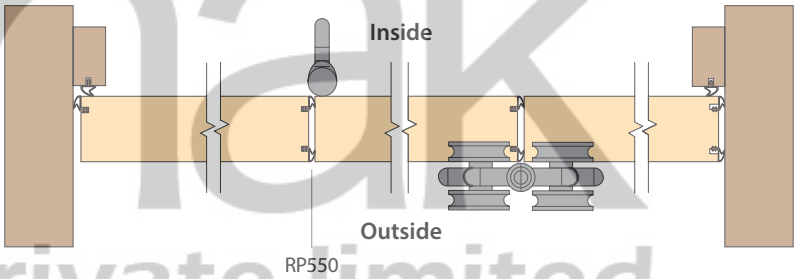
Folding door systems have become very popular for residential and commercial applications where building space and lifestyle considerations need to be maximised. These door systems allow indoor and outdoor living space to seamlessly blend together when the weather or mood permits. However, when the weather turns bad the chosen door system needs to keep the weather out while maintaining the climate within. To do this effectively, Raven offers a joinery range of premium quality silicon and TPE weather stripping profiles that are designed to meet all sealing and regulatory performance requirements for weather, energy, noise and ember attack in bushfire prone areas.

Displayed systems have been tested to AS 2047 requirements.

Note: Folding hardware by others.



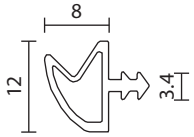




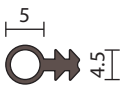
Weather Stripping

RP500 Silicon Series refer to page 104
RP600 TPE Series refer to page 105

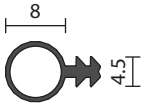
RP500 / RP600



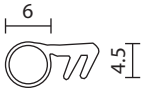
RP510 / RP610



RP520 / RP620

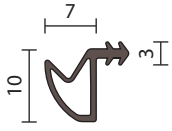


RP530 / RP630

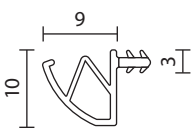


RP540 / RP640

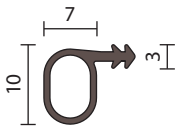
RP550



RP650



RP560 / RP660



Health and Aged Care

NCC Class 3, Class 8, Class 9 Buildings (hospitals, medical centres, nursing homes, clean rooms, laboratories, child care centres and schools)

Raven sealing systems for use in health and aged care applications are required to perform multiple functions such as the exclusion of weather, vermin, noise and the containment of smoke and fire. Raven seals can also help control the movement within a building of airborne pathogens.

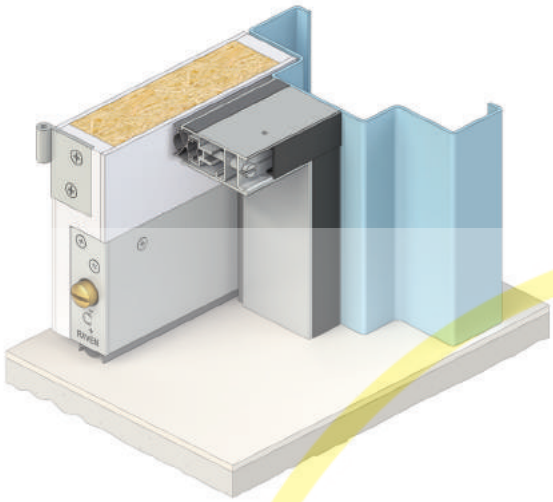
Raven sealing systems' easy wipe down designs have gaskets and polymer cover strips that contain a nanotech antimicrobial additive. These unique features, together with regular cleaning practices offer the best protection against surface bacteria around sealed doorways.

Most sealing applications but particularly in hospitals, medical and aged care facilities must meet strict building codes and standards. In some instances a Deemed-to-Satisfy requirement is stated. Raven sealing systems far exceed this requirement.

Architects and building engineers are demanding higher levels of performance in a building where engineered and tested systems are required. Raven offer the largest range of engineered and certified sealing systems in the industry making Raven the brand of choice in Australia and around the world.

RP24Si RP38Si

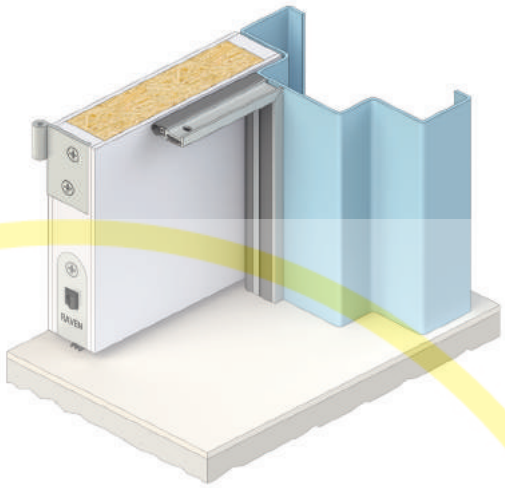
H



Perimeter seal adjustment independent of fixings

RP78HSi RP8Si

M



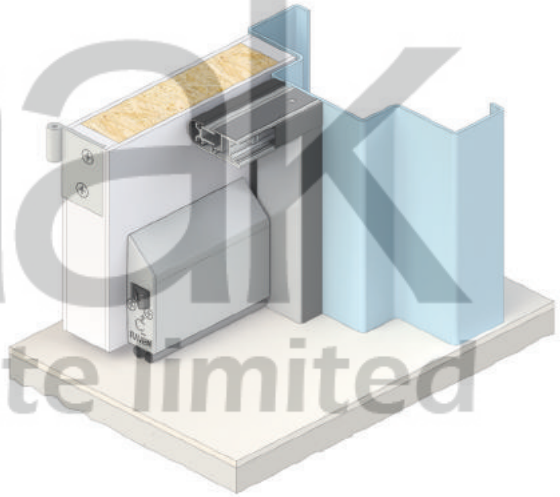
RP87HSi RP126Si

H

Perimeter seal adjustment independent of fixings

RP87HSi RP128Si

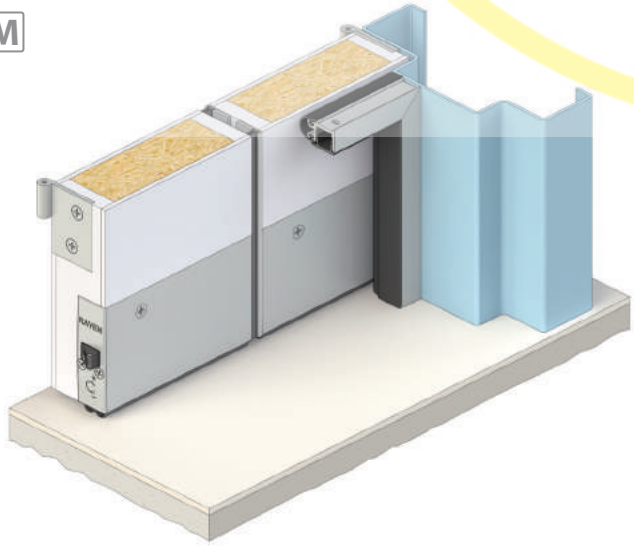
H



Perimeter seal adjustment independent of fixings

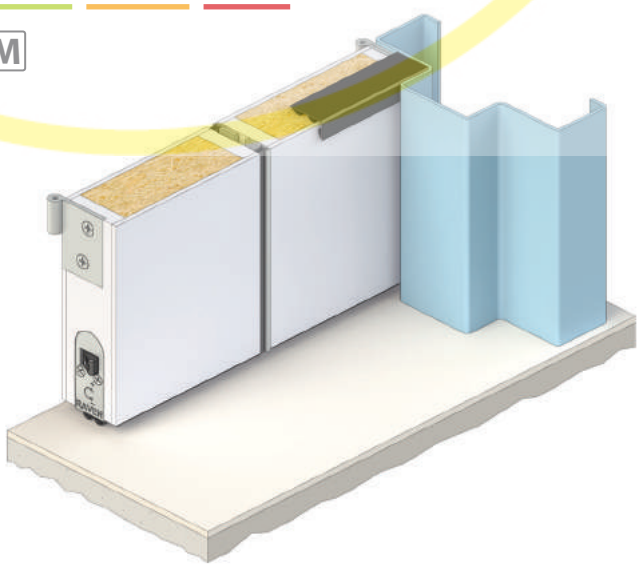
RP84Si RP126Si RP71Si

M



RP124 RP127Si RP71Si

M

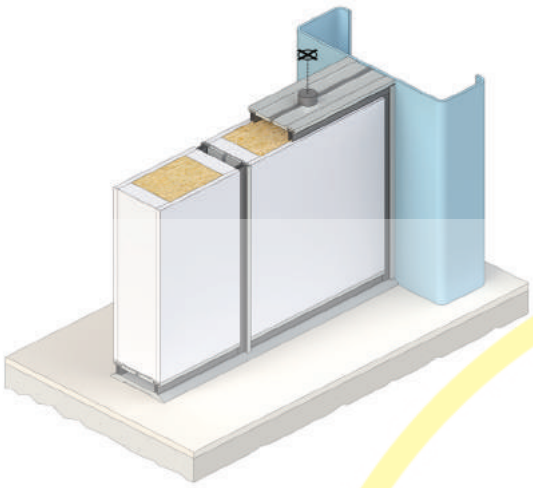


M200°C

RAVEN

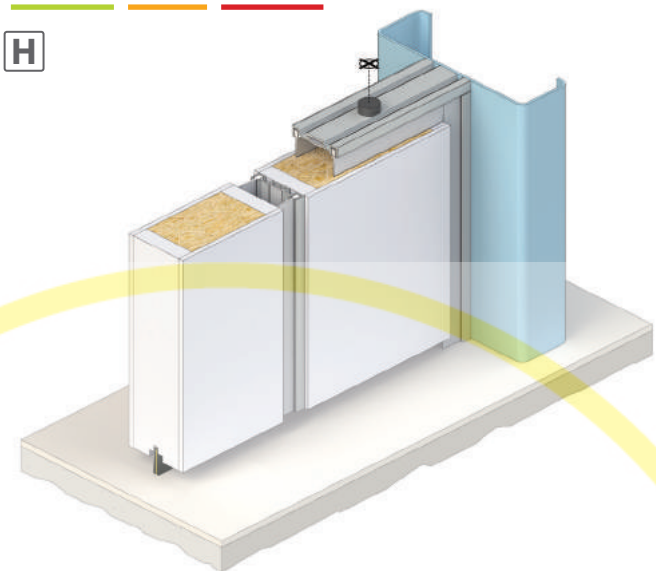
RP71Si RP71Si RP71Si RP96

M



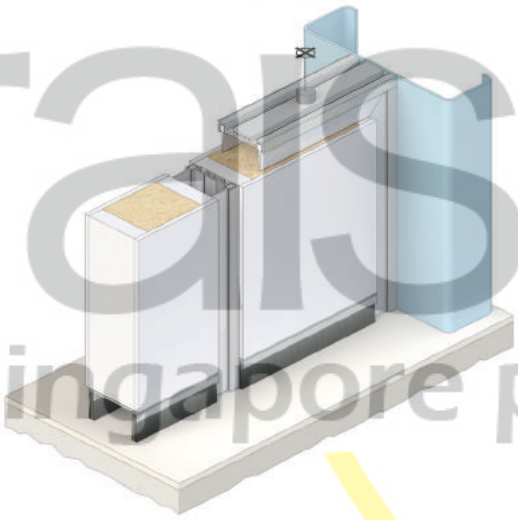
RP130Si RP52F RP130Si

H



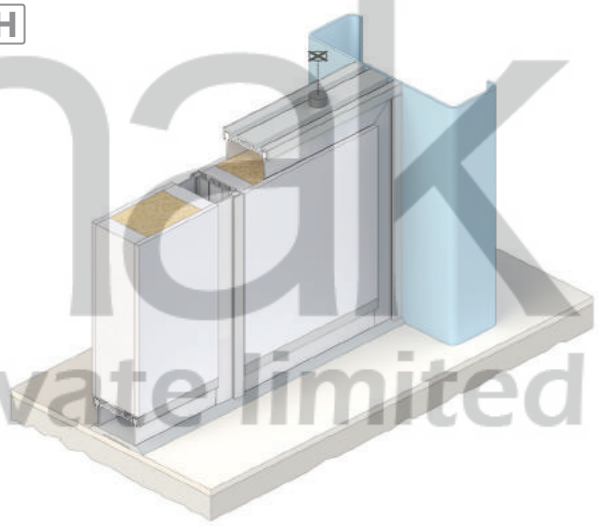
RP130Si RP129F RP130Si

H



RP130Si RP129Si RP130Si RP96

H



Notes

Smoke Door Sealing Systems

NCC Class 2 to Class 9 Buildings (hospitals, aged care facilities, hotels, high rise apartments and shopping centres)

In the event of a fire emergency, life and safety is the most critical requirement for the occupants of a building. Ambient (cold) and Medium temperature smoke that is generated by a fire must be contained quickly in order to provide safe areas within a building.

Smoke compartmentation is a mandated requirement of the Australian NCC and most building codes and regulatory authorities overseas. Smoke sealing, "Smoke Doors" (solid core doors) helps provide a physical barrier that impedes the spread of toxic fumes and smoke from one room to another. Smoke sealed doors also helps protect egress routes allowing occupants a safe passage when exiting the building during a fire alarm emergency.

Raven pioneered smoke door sealing systems, their design effectively reduces smoke leakage around the door margins of smoke doors 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.

In Australia, smoke doors and the use of fire rated doors are required to be smoke sealed to limit the leakage of ambient (cold) smoke and medium temperature smoke up to 200 degrees Celsius for 30 minutes. Refer NCC Sect. C3. Spec. C3.4. In addition to the Deemed-to-Satisfy requirements, Raven has tested and certified its smoke sealing systems to AS 1530.7 and EN 1634-3.

AUS National Construction Code (NCC) Spec. C3.4

Class 2 to Class 9 buildings

3.2 Construction Deemed-to-Satisfy

A smoke door of one or two leaves satisfies Clause 3.1 if it is constructed as follows:

(a) The leaves are side-hung to swing—
  (i) in the direction of egress; or
  (ii) in both directions.

(b) The leaves are solid-core and at least 35 mm thick, or are capable of resisting smoke at 200°C for 30 minutes.

(c) The leaves are fitted with smoke seals.

(d) (i) The leaves are normally in the closed position; or
  (ii) (A) The leaves are closed *automatically* with the *automatic* closing operation initiated by smoke detectors, installed in accordance with the relevant provisions of AS 1670.1, located on each side of the doorway not more than 1.5 m horizontal distance from the doorway; and
  (B) in the event of power failure to the door, the leaves fail-safe in the closed position.

(e) The leaves return to the fully closed position after each manual opening.

(f) Any glazing incorporated in the door complies with AS 1288.

(g) If a glazed panel is capable of being mistaken for an unobstructed *exit*, the presence of the glass must be identified by an opaque mid-height band, mid-rail, crash-bar or other opaque construction.

NZ Building Code Compliance Document

Clauses C1, C2, C3, C4 Fire Safety

Smoke control door

A door set with close fitting single or multi-leaves which are impermeable to the passage of smoke, fitted with smoke seals and installed within a smoke separation. The door, in the event of smoke, if not already closed, will close automatically and be held closed.

6.19.2 Door sets which are required to be:

(a) Fire doors, shall comply with Paragraph C8.1 of Appendix C.

(b) Smoke control doors shall, except as required by Paragraph 6.19.4, comply with Paragraph C8.1 of Appendix C. Smoke seals shall be fitted at the head and all vertical edges in the gaps between the door leaf or leaves and the frame, and between leaves in multi-leaf door sets.

Clause 6.19.6 Door sets shall be clearly marked to show their FRR and where required to show their smoke stopping capability.

Comment: A door marked -/60/30 Sm would be a fire door with an integrity of 60 minutes, and an insulation of 30 minutes, which may be used as a smoke control door. A door marked -/-/- Sm would be a smoke control door only, with no FRR.

UK / EU Building Regulations

Within Approved Document B, certain door sets within a building are identified as where smoke control door sets are required; tested to BS 476 Section 31.1 or EN 1634-3 1983 Method for measuring smoke penetration through door sets and shutter assemblies. Those door sets identified as smoke control doors designated by an S after the fire rating, i.e., FD30S, FD60S etc., should have a leakage rate not exceeding 3 $m^3/m/h$ from the head and jambs when tested at 25 Pa pressure.

Related Building Codes

There are several standards, which refer to seal properties and testing for fire and smoke:

AUS / NZ

Requirements are noted in the Australian National Construction Code (NCC) and New Zealand NZ BC Compliance Doc. C.

UK / EU

Requirements are noted in the British Building Regulations Approved Document B.

USA

Requirements are noted in the Building Code and the Residential Code IBC 2000.

For further details, refer to Standards / Authorities on page 130.

Smoke Doors

Selecting the correct sealing system

Smoke seals are designed to contain smoke within a room or corridor and can be a combination of mechanical, compression and sweep seals.

Ambient (Cold) Smoke

Smoke that has come down to ambient temperature after drifting from the fire can be a life threatening concoction. The majority of Raven door seals contain cold smoke and therefore can be used to upgrade existing doors. Seals are normally tested to AS 1530.7 and EN 1634-3 (BS 426 Sect. 31.1). Smoke leakage rates from these standards of up to 3 m^3/m/h of the door perimeter gap at 25 pascals excluding the threshold, is normally required. Raven seals easily exceed this criteria.

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

Smoke doors require seals to withstand greater temperatures (200 degrees Celsius for 30 minutes) to conform to the NCC specification C3.4 requirement for "Smoke Doors". Medium temperature smoke seals are required where the smoke is closer to the source of the fire and consequently at a higher temperature.

Sealing components are generally made from extruded silicon or tested high temperature PVC's and TPE's, and in the case of brush strip seals, nylon with a high temperature resistant barrier fin.

Fire & Hot Smoke Intumescent Seals

For fire engineered solutions (referred to as "performance solutions" in the NCC), fire engineers may require hot smoke seals. Intumescent seals are used for this purpose to seal against hot gases above 200°C.

Refer to page 108 for intumescent seals.

Unsealed Door

Smoke Seal Testing

Raven smoke seals are tested in accordance with AS/NZS 1530.7 & BS EN 1634-3. The seals are required to meet accepted smoke leakage rates at various pressure differentials.

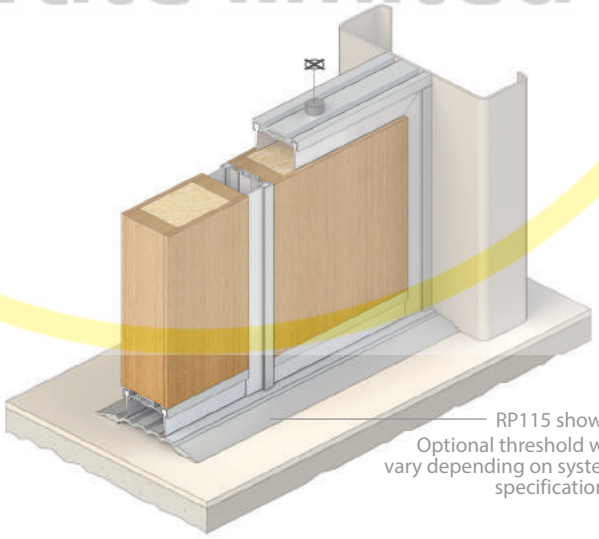
Tested systems to AS 1530.7 meeting the smoke leakage rates specified in AS 6905 Pt. 2.4 parts (a) & (b) meet the requirements of NCC specification C3.4 Deemed-to-Satisfy, i.e. smoke door assemblies having been exposed for 30 minutes or greater at 200°C, with leakage rates of up to 25 m^3/h at 25 Pa for single doors and 40 m^3/h for pairs of doors. Leakage rates are corrected to standard reference conditions. These leakage rates or better are commonly specified in fire engineered solutions. Raven have many tested solutions on proprietary doors to meet these requirements.

In the UK and EU Sa and Sm ratings to BS EN 13501-2 may be required. These ratings require tested smoke door assemblies to have met the leakage rates of up to 3 m^3/m/h of the door perimeter gap at 25 Pa for ambient temperatures "Sa". For medium temperature 20 m^3/h for single doors and 30 m^3/h for pairs of doors at a pressure differential of 50 Pa at 200°C "Sm". Tests are conducted to EN 1634-3.

Threshold Plates in Sealing Systems

Aluminium threshold plates can be used under a smoke door when the gap exceeds the specifications of the door bottom seal or to provide an optimum sealing surface for the door bottom seal.

Refer to page 70 for fire approved threshold plates.



RP115 shown.
Optional threshold will vary depending on system specifications.

Smoke Door Sealing Systems

Tested and Certified on Solid Core Doors

Effective combinations of smoke and acoustic seals tested on solid core doors that meet the requirements for AUS NCC specification C3.4 Deemed-to-Satisfy for smoke doors, UK Approved Document B and NZ Building Code Compliance Document C/AS1 Pt. 6.19.2 (b). These systems meet the leakage rates specified in AS 6905 when the door assembly is installed to AUS NCC specification C3.4 Deemed-to-Satisfy for smoke doors. Meets leakage rates specified in BS EN 13501-2 "Sa", "Sm" classification.

Single Doors

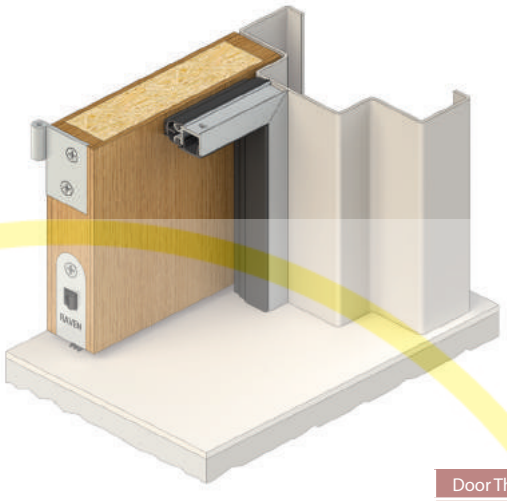
These systems have been smoke leakage performance tested to:

AS 1530.7 ≤ 25m³/h @ 25 Pa when exposed to 200°C > 30 minutes in accordance with AS 6905.

EN 1634-3 ≤ 3m³/h/m @ 25 Pa for ambient and ≤ 20m³/h @ 50 Pa for medium temperature in accordance with BS EN 13501-2.

RP10Si RP8Si

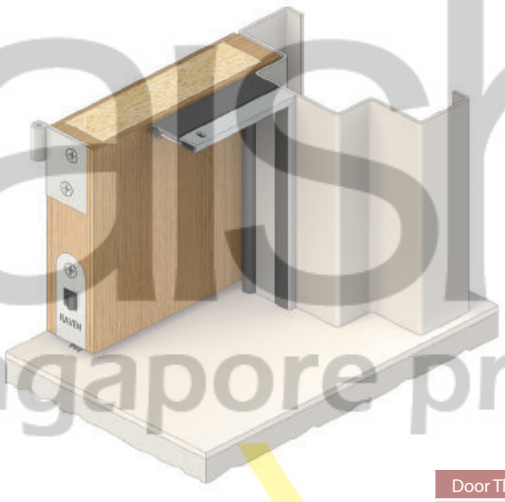
M



Door Thickness
≥35mm

RP23 RP8Si

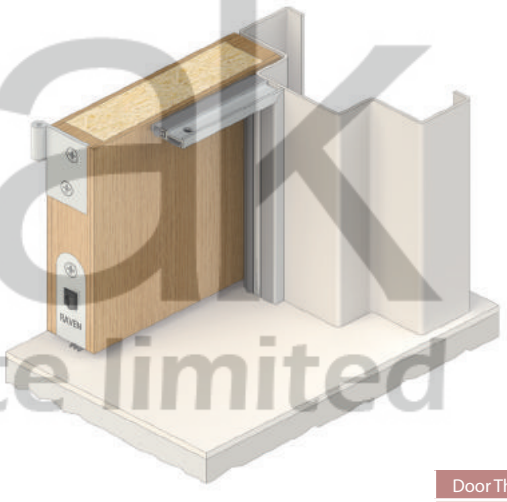
M



Door Thickness
≥35mm

RP78Si RP8Si

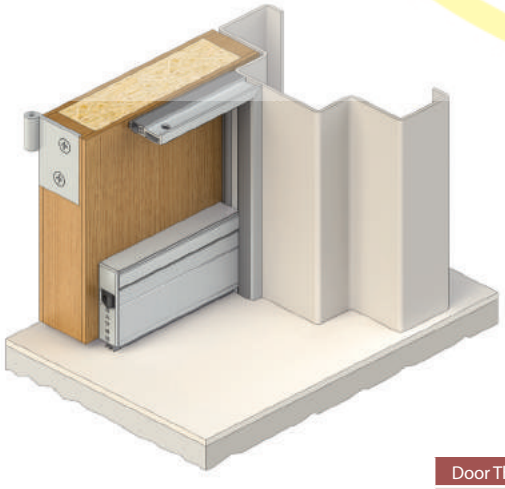
M



Door Thickness
≥35mm

RP78Si RP35Si

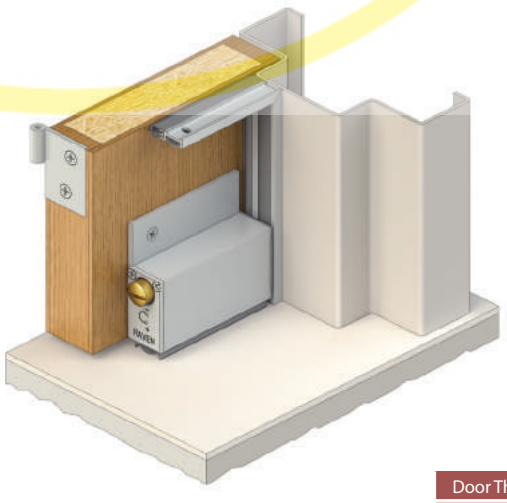
M



Door Thickness
≥35mm

RP78Si RP38Si

M



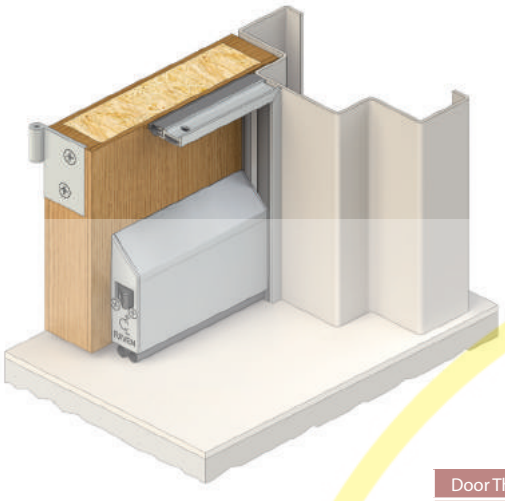
Door Thickness
≥35mm

Smoke Door Sealing Systems

Tested and Certified on Solid Core Doors

RP78Si RP128Si / RP126Si

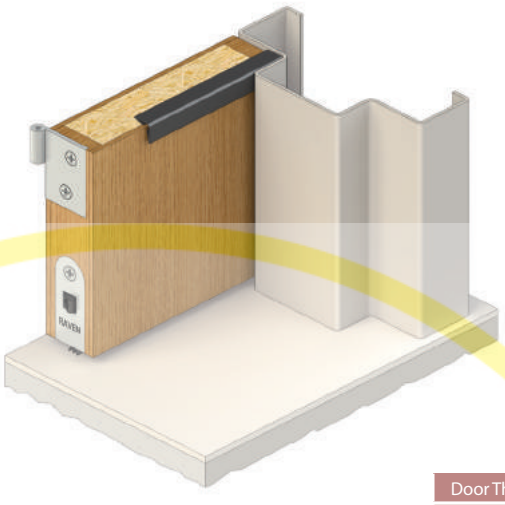
M



Door Thickness
≥35mm

RP120 / RP150 RP8Si

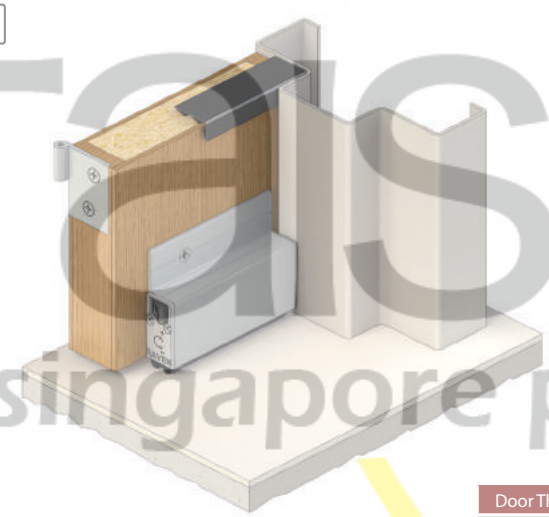
M



Door Thickness
≥35mm

RP124 RP126Si / RP128Si

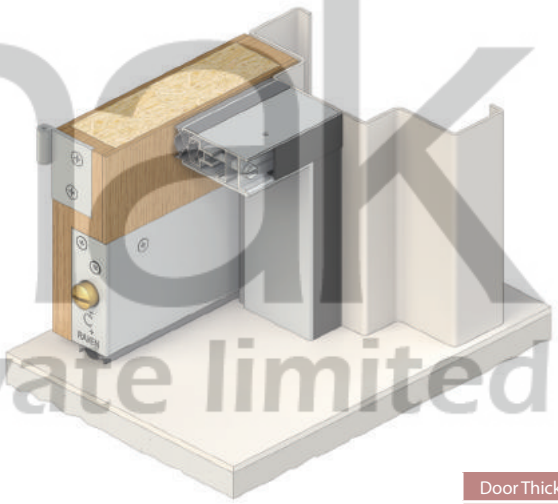
M



Door Thickness
≥35mm

RP24Si RP38Si

H

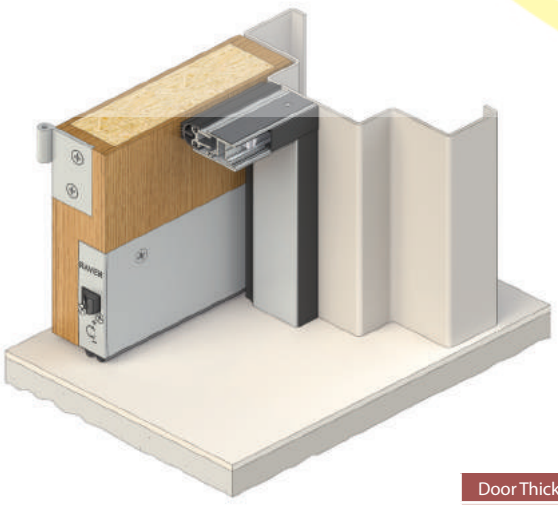


Door Thickness
≥40mm

Perimeter seal adjustment independent of fixings

RP87Si RP126Si

H

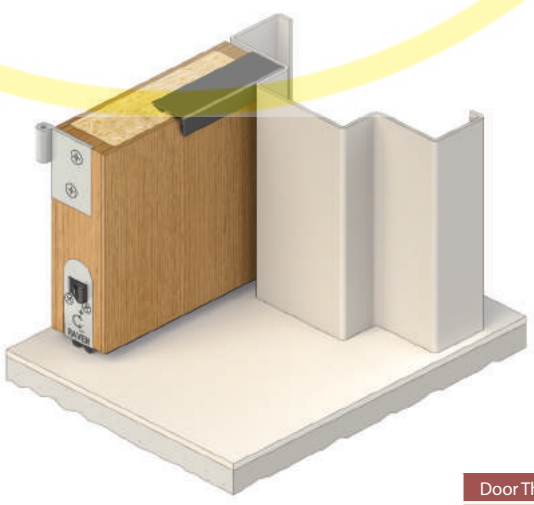


Door Thickness
≥40mm

Perimeter seal adjustment independent of fixings

RP124 RP127Si

M



Door Thickness
≥40mm

Smoke Door Sealing Systems

Tested and Certified on Solid Core Doors

Effective combinations of smoke and acoustic seals tested on solid core doors that meet the requirements for AUS NCC specification C3.4 Deemed-to-Satisfy for smoke doors, UK Approved Document B and NZ Building Code Compliance Document C/AS1 Pt. 6.19.2 (b). These systems meet the leakage rates specified in AS 6905 when the door assembly is installed to AUS NCC specification C3.4 Deemed-to-Satisfy for smoke doors. Meets leakage rates specified in BS EN 13501-2 "Sa", "Sm" classification.

Pairs of Doors

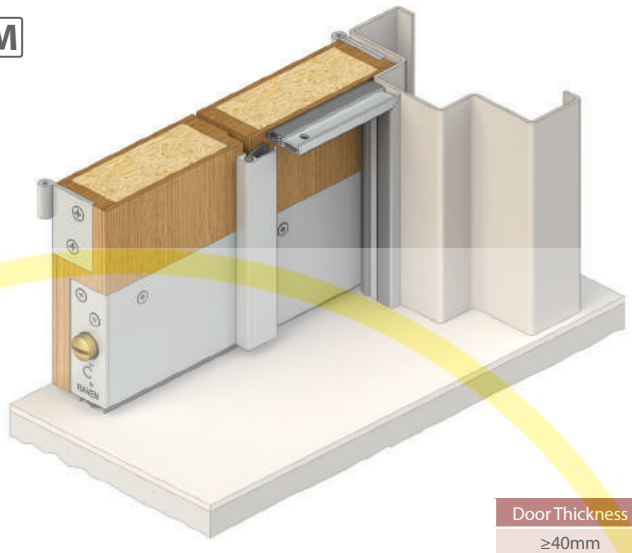
These systems have been smoke leakage performance tested to:

AS 1530.7 ≤ 40m³/h @ 25 Pa when exposed to 200°C > 30 minutes in accordance with AS 6905.

EN 1634-3 ≤ 3m³/h/m @ 25 Pa for ambient and ≤ 30m³/h @ 50 Pa for medium temperature in accordance with BS EN 13501-2.

RP78Si RP38Si RP16Si

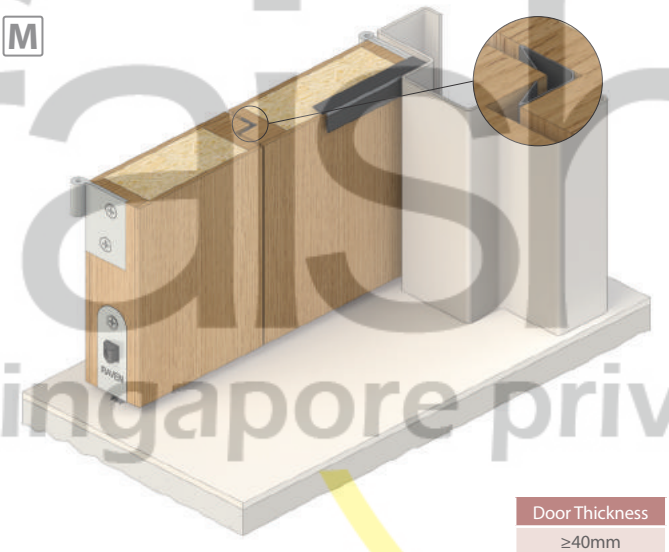
M



Door Thickness
≥40mm

RP120 RP8Si RP120

M



Door Thickness
≥40mm

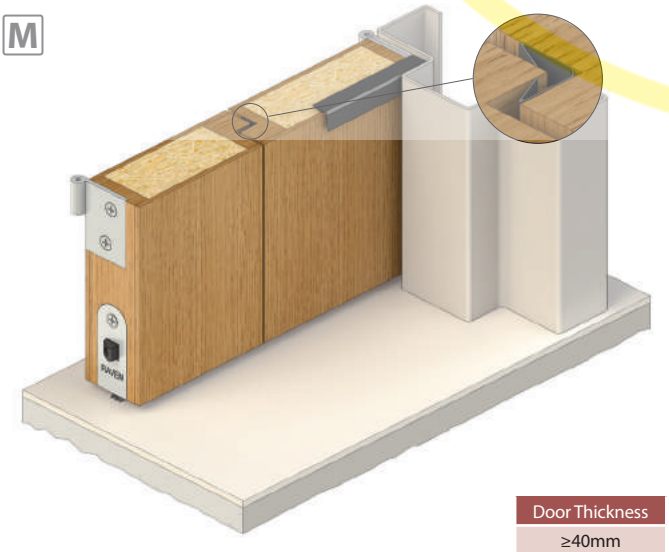
RP124 RP35Si RP71Si

M

Door Thickness
≥40mm

RP150 RP8Si RP150

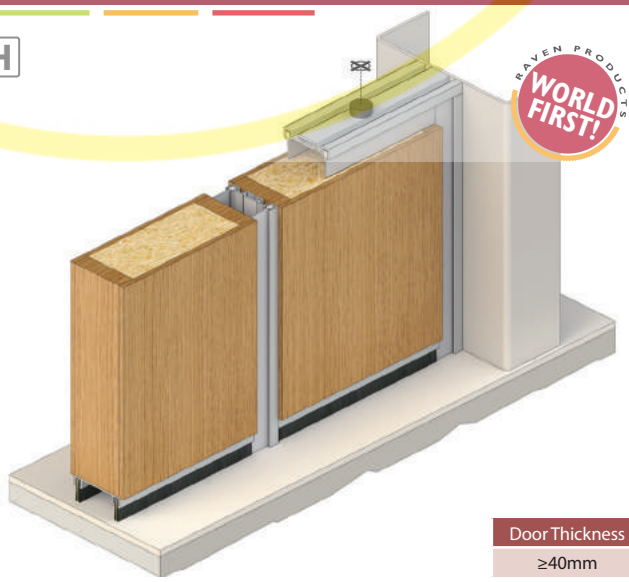
M



Door Thickness
≥40mm

RP130Si RP129F RP130Si

H



Door Thickness
≥40mm

Smoke Door Sealing Systems

Fire Engineered - Performance Solutions

These systems may be used where the source of exposure could be from either side of the door opening and can be used where a fire engineered solution may be required. Effective combinations of smoke and acoustic seals tested on solid core doors that meet the requirements for AUS NCC specification C3.4 Deemed-to-Satisfy for smoke doors, UK Approved Document B and NZ Building Code Compliance Document C/AS1 Pt. 6.19.2 (b). Tested to AS 1530.7 and EN 1634-3. All systems open towards positive pressure (fire side).

Smoke Leakage Rates

AS1530.7 ≤ 25m³/h @ 25 Pa for single doors and ≤ 40m³/h @ 25 Pa for double doors when exposed to 200°C for 30 minutes in accordance with AS6905.

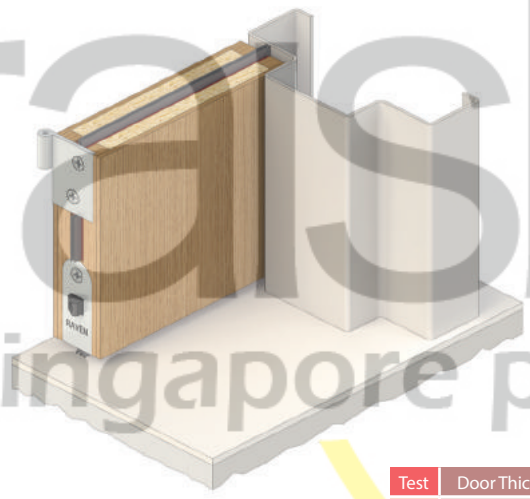
EN1634-3 Sa; ≤ 3m³/h/m @ 25 Pa excluding the threshold for ambient. For Sm; ≤ 20m³/h @ 50 Pa for single doors and ≤ 30m³/h @ ambient and 200°C in accordance with BS EN 13501-2.

Test	Exposure	Leakage rate correction	Leakage rate Q (m³/h) at a pressure differential of;		
			10 Pa	25 Pa	50 Pa
01	Ambient	*SRC	7.8	13.2	19.3
	Medium 200°C	*SRC	4.4	8.1	15.6
	Medium 200°C > 30 min	*SRC	5.4	10.9	18.3
02	Ambient	*SRC	2.5	4.4	6.8
	Medium 200°C	*SRC	< 2.0	< 2.0	4.2
	Medium 200°C > 30 min	*SRC	4.7	7.9	10.3
03	Ambient	*SRC	0.6	1.2	1.9
	Medium 200°C	*SRC	<2.0	<2.0	2.6
	Medium 200°C > 30 min	*SRC	5.1	12.0	19.7
04	Ambient	*SRC	8.0	13.6	20.0
	Medium 200°C	*SRC	4.1	9.9	13.1
	Medium 200°C > 30 min	*SRC	4.6	9.7	13.5

*Standard Reference Conditions

RP76Si RP8Si

M



Test	Door Thickness
01	≥35mm

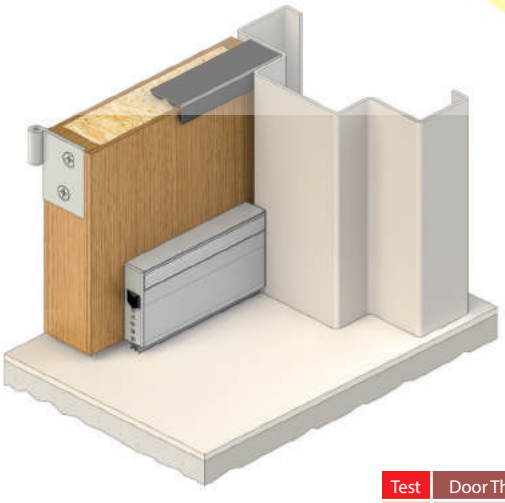
RP120 RP8Si

M

Test	Door Thickness
02	≥35mm

RP124 RP35Si

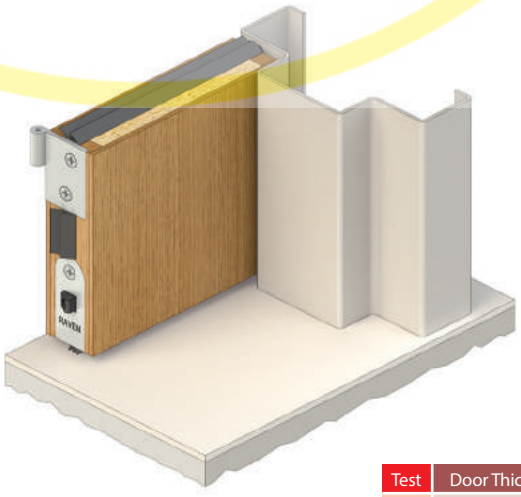
M



Test	Door Thickness
03	≥35mm

RP670 RP8Si

M



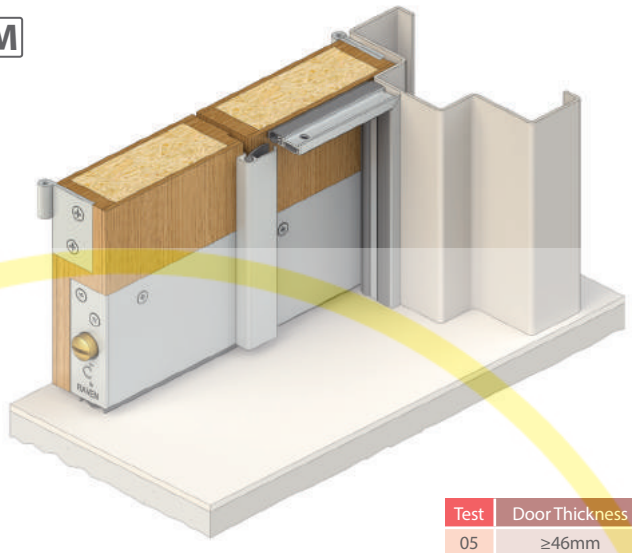
Test	Door Thickness
04	≥35mm

Test	Exposure	Leakage rate correction	Leakage rate Q (m³/h) at a pressure differential of;		
			10 Pa	25 Pa	50 Pa
05	Ambient	*SRC	4.9	8.9	13.5
	Medium 200°C	*SRC	<2.0	3.1	5.2
	Medium 200°C > 30 min	*SRC	<2.0	2.3	3.7
06	Ambient	*SRC	3.3	6.2	9.3
	Medium 200°C	*SRC	<2.0	3.5	4.7
	Medium 200°C > 30 min	*SRC	<2.0	5.1	9.5
07	Ambient	*SRC	3.5	6.2	9.5
	Medium 200°C	*SRC	2.9	3.5	8.2
	Medium 200°C > 30 min	*SRC	4.6	7.9	11.5
08	Ambient	*SRC	5.8	9.8	15.1
	Medium 200°C	*SRC	3.0	5.1	12.2
	Medium 200°C > 30 min	*SRC	3.3	5.8	11.4
09	Ambient	*SRC	3.5	8.1	14.2
	Medium 200°C	*SRC	3.3	7.9	11.2
	Medium 200°C > 30 min	*SRC	6.6	12.2	18.0

*Standard Reference Conditions

RP78Si RP38Si RP16Si

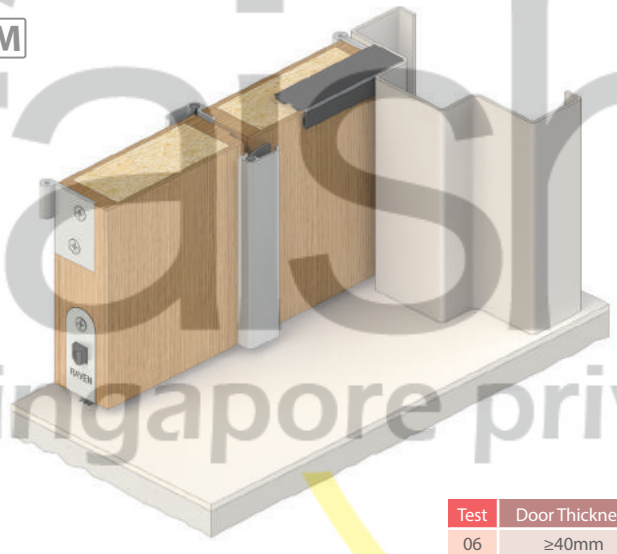
M



Test	Door Thickness
05	≥46mm

RP124 RP8Si RP16Si

M



Test	Door Thickness
06	≥40mm

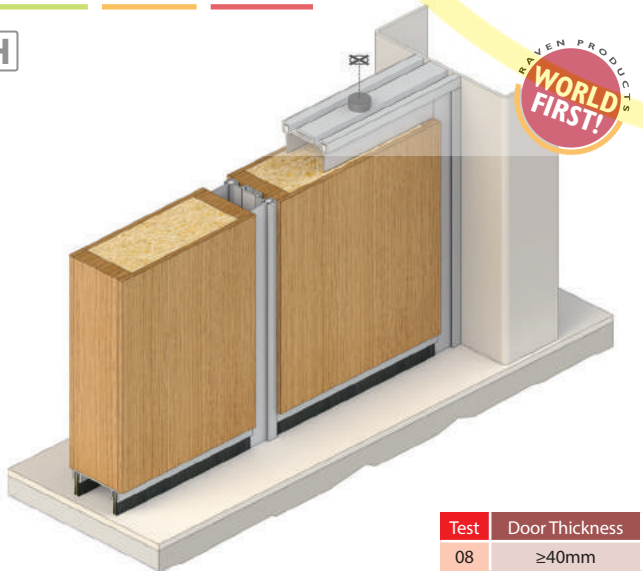
RP150 RP126Si RP150

M

Test	Door Thickness
07	≥40mm

RP130Si RP129F RP130Si

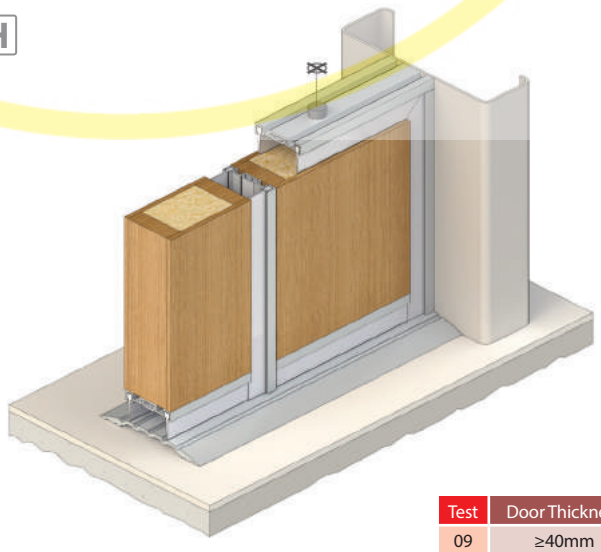
H



Test	Door Thickness
08	≥40mm

RP130Si RP129Si RP130Si RP115

H



Test	Door Thickness
09	≥40mm

Smoke Sealing Systems
Fire Rated (Labelled) Doors

Fire doors in Australia need to be installed to AS/NZS1905.1 as mandated by the NCC. This means the fire door has a Fire Resistance Level (FRL) as determined in the fire test method AS 1530.4 where door sets are subject to extreme temperatures in a full scale fire test simulating a fire emergency. The door set is then given an FRL which is a nominal grading period in minutes for structural adequacy/integrity/insulation. Fire doors are not structural members of a building so therefore have for example an FRL of -/120/60 where the FRL is 0 for structural adequacy/120 minutes for integrity/60 minutes for insulation. This is represented in NZ as FRR -/120/60 or in the UK for integrity as FD120 or in Europe IE120.

Door hardware including door seals are then tested to evaluate there is no reduction in the established FRL of that fire door.

Effective combinations of smoke and acoustic seals for fire rated butt hinged doors that have been tested and/or assessed to AS 1530.4 and BS 476 Pt. 22 (similar to BS EN 1634-1). These seals meet the requirements for AUS NCC specification C3.4 Deemed-to-Satisfy for smoke doors, NZ BC Compliance Doc. C, UK Approved Document B and standard BS 5588. These systems meet the leakage rates specified in AS 6905 when the door assembly is installed to AUS NCC specification C3.4 Deemed-to-Satisfy for smoke doors. Meets leakage rates specified in BS EN 13501-2 "Sa", "Sm" classification.

These systems have been smoke leakage performance tested to:

AS 1530.7 ≤ 25m³/h @ 25 Pa when exposed to 200°C > 30 minutes in accordance with AS 6905.

EN 1634-3 ≤ 3m³/h/m @ 25 Pa for ambient and ≤ 20m³/h @ 50 Pa for medium temperature in accordance with BS EN 13501-2.

A large range of product combinations may be used, refer to door bottom seals and door frame or perimeter seals sections for fire ratings of individual seals on pages 48 - 123.

Threshold Plates in Sealing Systems

Aluminium threshold plates can be used under a fire door when the gap exceeds the specifications of the door bottom seal or to provide an optimum sealing surface for the door bottom seal.

Product selection should be made when assessing the mandated requirements listed in the AUS NCC and the Australian standard AS 1905.1: Components for the protection of openings in fire-resistant walls, Part1: Fire-resistant door sets, Section 5.5 Clearances around Door Leaves. Specifiers will determine the suitability of the information provided when selecting a Raven seal for their application.

Refer to page 70 for fire approved threshold plates.

RP24Si RP38Si RP96

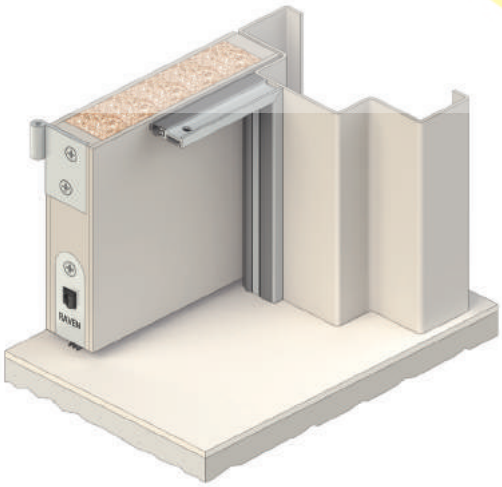
H

RP96 shown. Optional threshold will vary depending on system specifications.

Perimeter seal adjustment independent of fixings

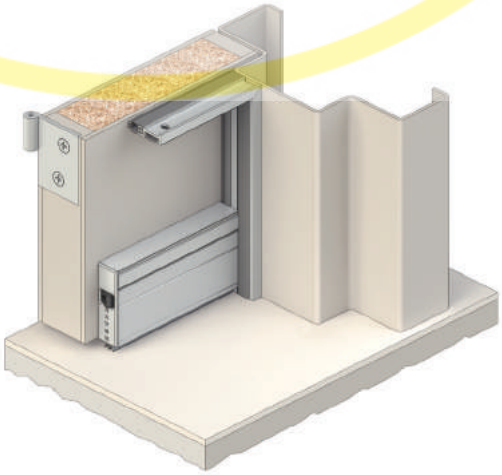
RP78Si RP8Si

M



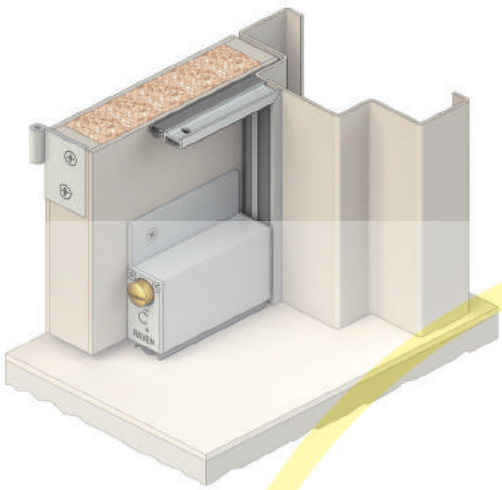
RP78Si RP35Si

M



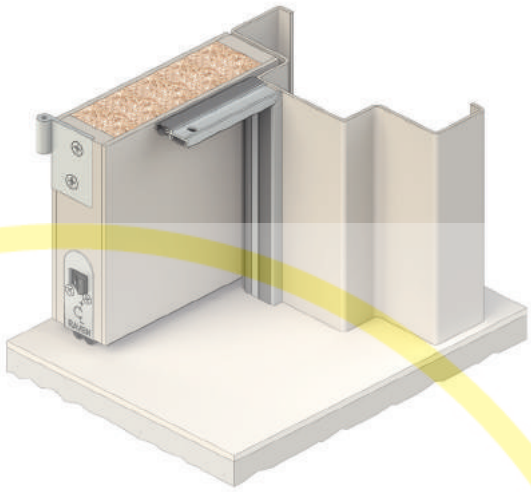
RP78Si RP38Si

M



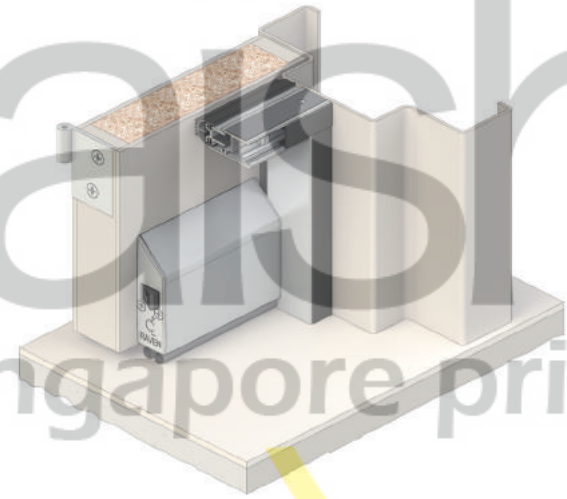
RP78Si RP127Si

M



RP87Si RP128Si

H



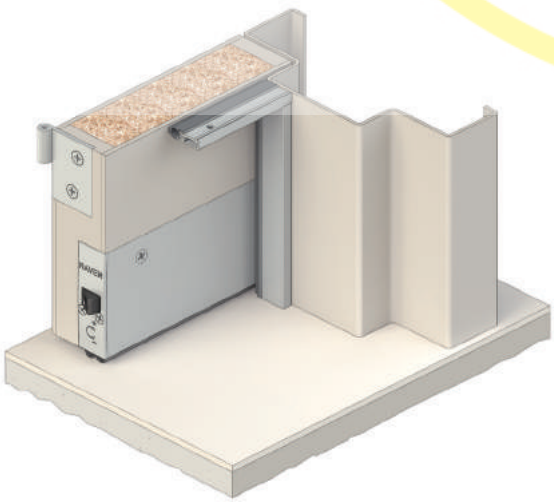
RP93Si RP99Si

M

Perimeter seal adjustment independent of fixings

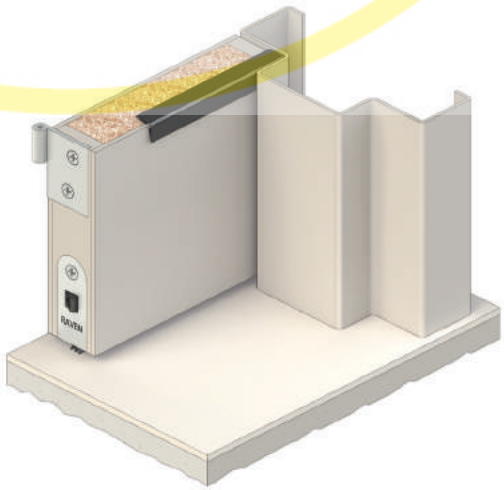
RP94Si RP126Si

M



RP120 / RP150 / RP124 RP8Si

M



Bushfire - Sealing Systems

BAL LOW BAL ≤29 BAL ≤40 BAL ≤FZ

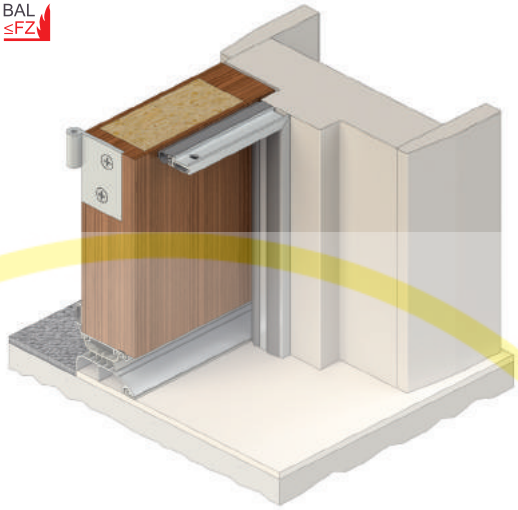
Bushfire Prone Areas - Ember Attack

Due to bushfires in Canberra in 2003 and the tragedy of the Victorian bushfires in 2009, the Australian Standard "Construction of Buildings in Bushfire Prone Areas" AS 3959 was revised. The changes provide better guidance to the construction of buildings to AS 3959 with the purpose of providing greater ability to withstand a bushfire attack. Bushfire Attack Levels (BAL) were defined and means to assessing a building site to these levels. Construction requirements are now laid out to define the requirements for different elements of a building to the BAL.

Throughout the catalogue BAL icons are used to show what Bushfire Attack Level the product is suitable for. Shown here are a range of sealing systems that may be used in accordance with AS 3959 to meet these requirements.

RP78Si RP4FZ

M BAL ≤FZ



Butt Hinged Entry Doors

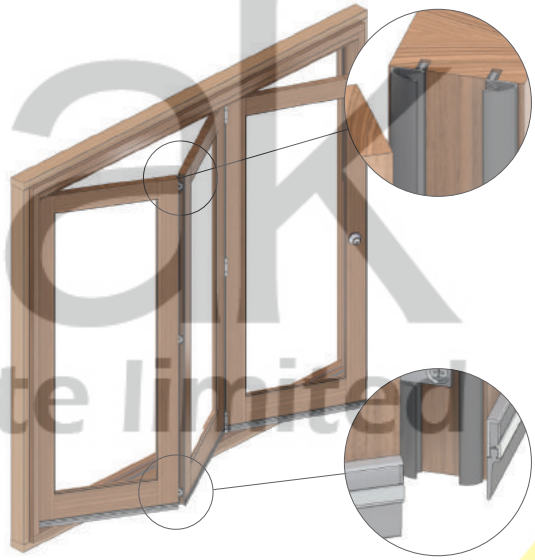
RP78Si RP51Si RP16Si RP82

M BAL ≤40

Double Outward Opening Doors

RP600 RP51Si

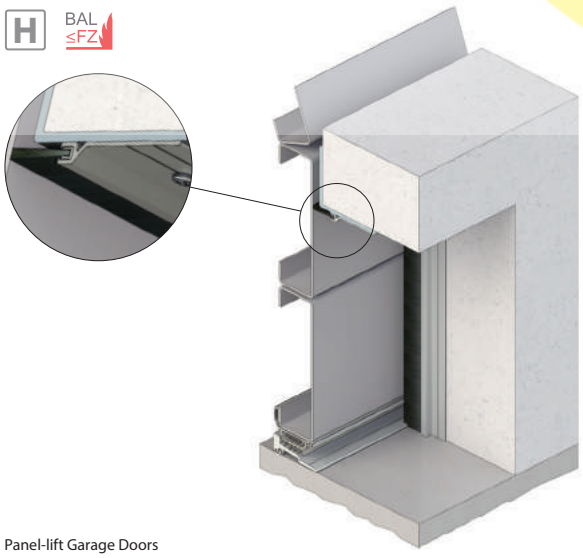
H BAL ≤40



Folding Doors

RP41 RP75 RP114 RP91

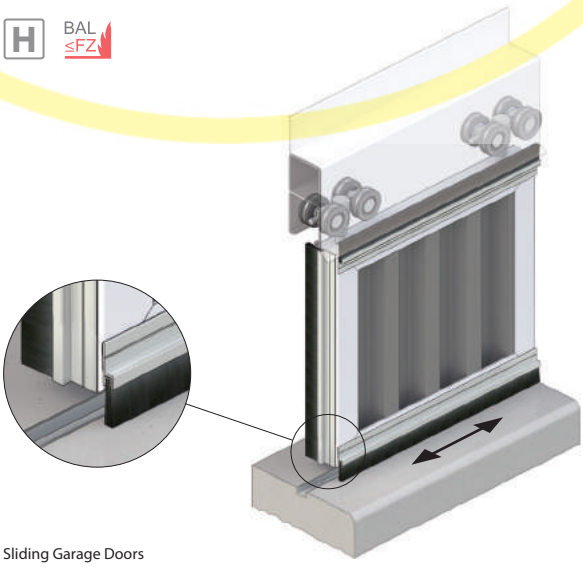
H BAL ≤FZ



Panel-lift Garage Doors

RP75 RP75

H BAL ≤FZ



Sliding Garage Doors

Bushfire - Sealing Systems

Bushfire Prone Areas - Ember Attack

BAL LOW BAL ≤29 BAL ≤40 BAL ≤FZ

The table below can assist product selection in meeting the design requirements of the latest Australian Bushfire Standard AS 3959. Raven seals being multi-purpose can be used for all new and retrofit work.

Product selection should be made when assessing the mandated requirements listed in the AUS NCC and the Australian Bushfire Standard AS 3959. Specifiers will determine the suitability of the information provided when selecting a Raven seal for their purposes.

Australian Bushfire Standard AS 3959 BAL (Bushfire Attack Level)	**Side Hung** (Ember Attack) Raven Perimeter Seal andDoor Bottom Seal	**Garage Doors** (Ember Attack) **Roller and Sectional Overhead**
BAL - LOW	All Raven Seals that display the BAL Low icon. BAL LOW	Raven nylon brush strip seal RP2a, RP2b, RP41, RP49, RP50, RP51F, RP57, RP58, RP74, RP74F, RP75 at door head and sides where required. Door bottom seal RP114 or RP51Si (if bottom seal not supplied with door) Option: Threshold plate RP91 Refer to page 12
BAL - 12.5, 19, 29	All Raven Seals that display the BAL ≤ 29 icon. BAL ≤29	Raven nylon brush strip seal RP2a, RP2b, RP41, RP49, RP50, RP51F, RP57, RP58, RP74, RP74F, RP75 at door head and sides where required. Door bottom seal RP114 or RP51Si (if bottom seal not supplied with door) Option: Threshold plate RP91 Refer to page 12
BAL - 40	All Raven Seals that display the BAL ≤ 40 icon. BAL ≤40	Raven nylon brush strip seal RP2a, RP2b, RP41, RP49, RP50, RP51F, RP74, RP74F, RP75 at door head and sides where required. Door bottom seal RP114 (if bottom seal not supplied with door) Threshold plate RP91 Refer to page 12
BAL - FZ	All Raven Seals that display the BAL FZ icon. BAL ≤FZ	Raven nylon brush strip seal RP2a, RP2b, RP41, RP49, RP50, RP74, RP74F, RP75 at door head and sides where required. Door bottom seal RP114 (if bottom seal not supplied with door) Threshold plate RP91 Refer to page 12

Noise - Acoustic

NCC Class 2 to Class 9 Buildings (high rise apartments, hospitals, hotels, schools, theatres, conference rooms and offices)

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.

Raven acoustic seals provide an excellent barrier to airborne sound and help ensure that the acoustic attenuation provided by an acoustically sealed door assembly can in many cases be equivalent to the wall or partition into which it is installed.

Raven acoustic seals help isolate buildings from external noise, such as the noise generated from roads, railways and airports. They also help isolate rooms from airborne noise generated within a building. For example; plant and machinery, theatres, cinemas, crèches, dental and doctors' surgeries, stairwells, passages, interconnecting hotel rooms and adjoining apartments.

In Australia, the NCC Part F5.5 Deemed-to-Satisfy provisions states that Class 2 buildings; typically apartments and multi-residential, and class 3 buildings; hotels and motels, have entry doors with a minimum sound insulation rating of R_W30. The UK Building Approved Document E states a minimum R_W29 is required.

Raven acoustic seals are used in airports, hotels, offices, hospitals, homes and anywhere noise infiltration occurs through doors. Their effectiveness is best illustrated by the repeated use of Raven seals by architects, acoustic engineers, door fabricators, and project builders.

Raven, the industry leader in door sealing systems, pioneered baseline acoustic testing, utilising "off the shelf" doors and ironmongery to give specifiers proven, cost effective solutions to the growing problem of noise in living and workplace environments.

Acoustic door manufacturers increasingly incorporate Raven door sealing systems with acoustically engineered doors to achieve and maintain the highest R_W ratings up to R_W52.

Improving R_W Ratings

It should be considered that the R_W rating of a door set is only as good as the sum of its parts, i.e. the R_W value of the door set, fitted with Raven acoustic seals and the wall in which the door assembly is fitted. The use of soft absorbent furnishings within a room will also help absorb unwanted noise. All these measures will improve the acoustic attenuation of the room.

Typically, when Raven acoustic seals are fitted to timber solid core doors the R_W rating of the door assembly is increased from around R_W16 up to R_W32. When the assembly is placed into an R_W55 wall, the overall rating of the door assembly and wall combination drops as a ratio to area. The larger the wall area the less the combined R_W rating will drop.

AUS National Construction Code (NCC) Part F5

Class 2 to Class 9 buildings

F5.5 Sound insulation rating of walls

(a) A wall in a Class 2 or 3 building must—

(i) have an $R_w + C_{tr}$ (airborne) not less than 50, if it separates *sole-occupancy units*; and

(ii) have an R_w (airborne) not less than 50, if it separates a *sole-occupancy unit* from a plant room, lift *shaft*, stairway, *public corridor*, public lobby or the like, or parts of a different classification; and

(iii) comply with **F5.3(b)** if it separates—

(A) a bathroom, *sanitary compartment*, laundry or kitchen in one *sole-occupancy unit* from a *habitable room* (other than a kitchen) in an adjoining unit; or

(B) a *sole-occupancy unit* from a plant room or lift *shaft*.

(b) A door may be incorporated in a wall in a Class 2 or 3 building that separates a *sole-occupancy unit* from a stairway, *public corridor*, public lobby or the like, provided the door assembly has an R_w not less than 30.

Acoustic Standards, Test Methods and Ratings

The test methods used to establish the sound attenuation ability of a door set is AS 1191, ISO 140 series and recently EN ISO 10140 series standards. Test data from any one of these test methods can be used in EN ISO 717-1 which provides a single number rating across a spectrum of frequencies for the sound attenuation performance of the building element. Typically Rw is used for door sets that cover frequencies from 100Hz to 3150Hz.

Related Building Codes

There are several standards, which refer to seal properties and testing for noise - acoustic:

AUS / NZ

Requirements are noted in the Australian National Construction Code (NCC) and New Zealand NZ BC Compliance Doc. G.

UK / EU

Requirements are noted in the British Building Regulations Approved Document E.

USA

Requirements are noted in the Building Code and the Residential Code IBC 2000.

For further details, refer to Standards / Authorities on page 130.

Make the right selection

This selection guide is to aid architects, engineers and builders in making the right choice of door and Raven sealing system to suit the room. The selection of the Rw rating of the door sealing system is based on achieving the design sound level (LAeq) in the room as recommended in AS/NZS 2107:2016.

1. Select the **TYPE OF ROOM OF OCCUPANCY** from the table opposite.

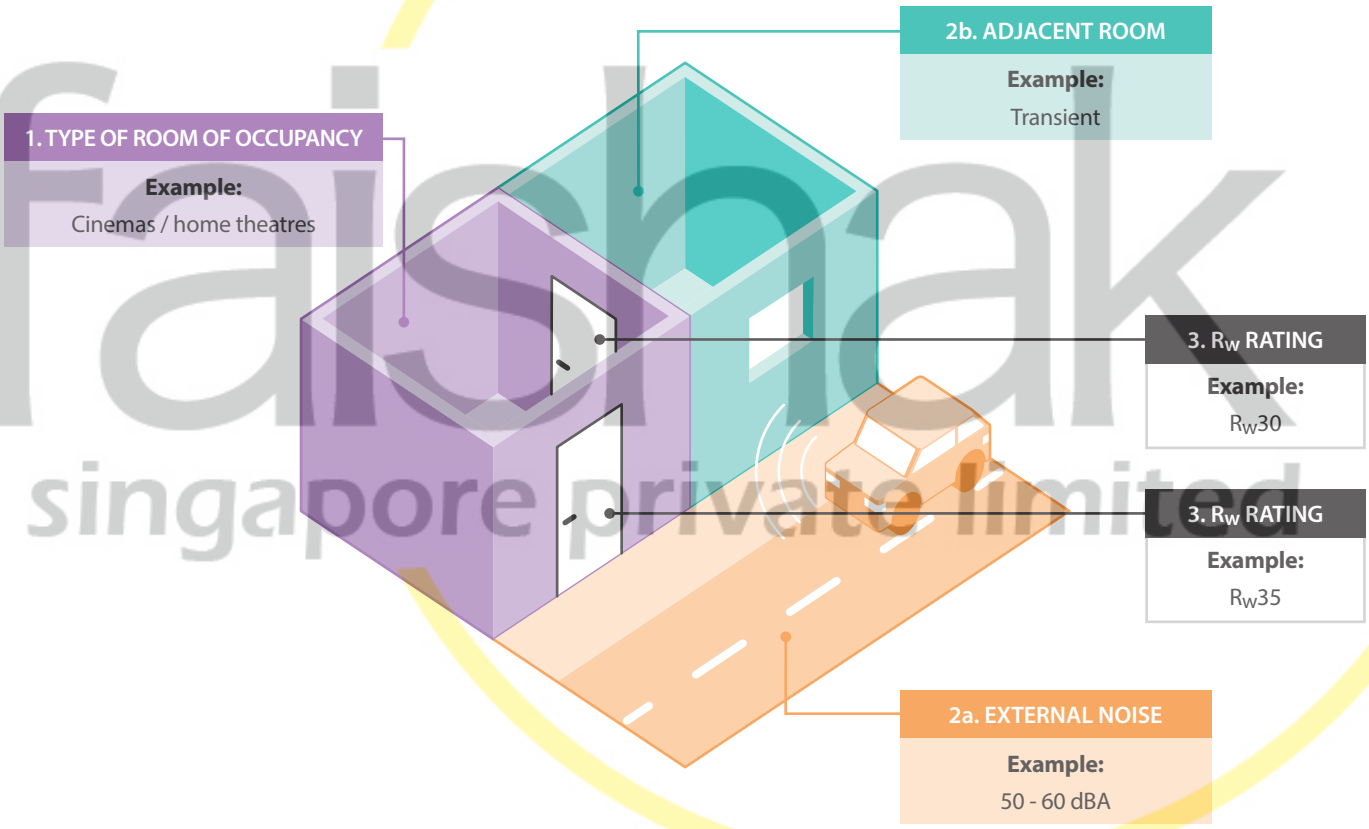
2. Find at the top of the table, the level of either:

2a. EXTERNAL NOISE, OR

2b. ADJACENT ROOM

3. Both of these criteria will then find the required **R_W** rating for the door sealing system.

4. Select a sealing system with the same or next highest **R_W** rating.



Glossary

LAeq LAeq is the A-weighted equivalent continuous sound level in decibels measured over a stated period of time.

dB Decibels are a unit used to measure the intensity of a sound by comparing it with a given level on a logarithmic scale.

dBA A-weighted decibels are an expression of the relative loudness of sounds in air as perceived by the human ear.

R_W The R_W is a single number quantity in decibels of an assembly's ability to resist airborne sound transfer at the frequencies of 100Hz to 3150Hz. The higher the R_W rating the more sound energy is stopped by the Raven sealed door set.

1. TYPE OF ROOM OF OCCUPANCY	2a. EXTERNAL NOISE **40 - 50 dBA** *e.g. Quiet residential area with distant traffic noise / rainfall / creeks*	**50 - 60 dBA** *e.g. Urban area with traffic noise / distant train noise / quiet restaurants*	**60 - 70 dBA** *e.g. Urban area with significant traffic noise / retail activity / busy restaurants / industrial noise*
	2b. ADJACENT ROOM **40 - 50 dBA** **Transient** *e.g. Corridors*	**50 - 60 dBA** **Occupied** *e.g. Offices / Classrooms*	**60 - 70 dBA** **Occupied / Unoccupied** *e.g. Music / Factories*
	3. REQUIRED R_W RATING OF DOOR SEALING SYSTEM		
• Carparks • Control rooms • Factories	R_W22	R_W25	R_W28
• Bars and lounges • Corridors and lobbies • Food courts • Service areas / utility rooms • Shopping malls / supermarkets • Stores	R_W25	R_W28	R_W30
• Airports • Apartments[1] • Art studios • Boarding house rooms[1] • Cafés • Guest house rooms[1] • Gyms • Hotel rooms / motel rooms[1] • Intensive care wards • Laboratories • Libraries • Computer rooms • Living areas[1] • Meeting rooms • Offices • Recovery rooms	R_W30	R_W30	R_W35
• Auditoriums • Bedrooms / sleeping areas[1] • Board rooms • Cinemas / home theatres • Classrooms • Consulting rooms • Convention centres • Court rooms • Delivery suites • Drama studios • Executive offices • Places of worship • Procedure rooms	R_W30	R_W35	R_W40
• Drama studios[2] • Film or television studios[2] • Music practice / studio rooms[2] • Music recording studios[2] • Sound stages[2] • Voice over booth[2]	R_W35+	R_W40	$R_W43 - 45$

[1] To be used with this guide for external door sealing solutions only. Refer NCC Part F5.5 (b) on page 31.

[2] Rating of acoustic door to be acoustically designed by a suitably qualified acoustic engineer.

It must be noted that this table does not calculate the end design sound level (LAeq,t), but only the minimum required Rw rating of a door set.

It must also be noted that this table is a guide only and is not to take precedence over local building codes or standards. Consultation with an acoustic engineer should be considered when specifying solutions for noise problems.

Noise - Acoustic - Sealing Systems

Rw30 - 33 Standard Solid Core Timber Doors

Doors tested were standard solid core timber doors.

For more info visit raven.com.au/acoustics-catalogue.

RP10 / RP10Si RP99Si

H

Test	Door Thickness	STC	Rw
002	35mm	30	30

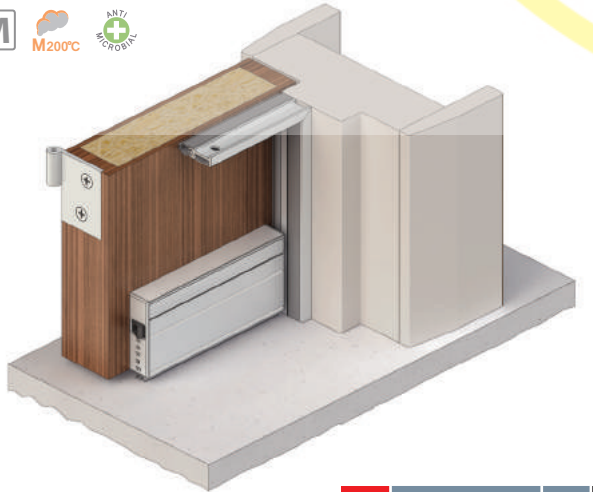
RP10Si RP8Si

M M200°C

Test	Door Thickness	STC	Rw
064	40mm	30	30

RP78Si RP35Si

M M200°C



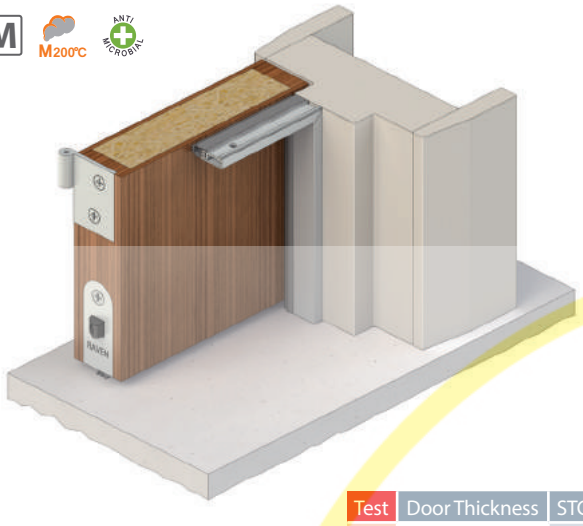
Test	Door Thickness	STC	Rw
065	35mm	30	30

RP78Si RP8Si

M M200°C

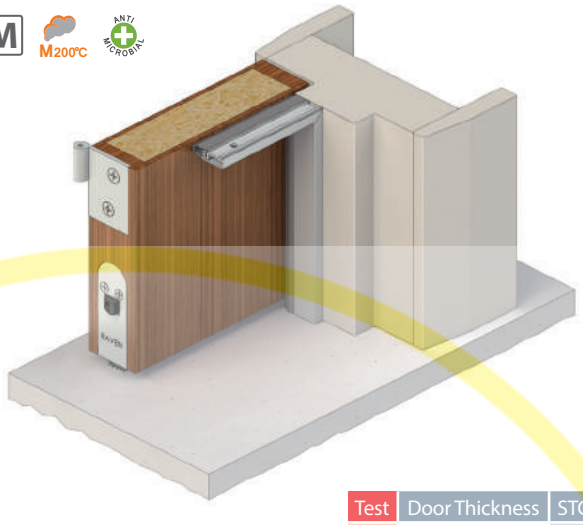
Test	Door Thickness	STC	Rw
007	35mm	30	30

RP94Si RP8Si



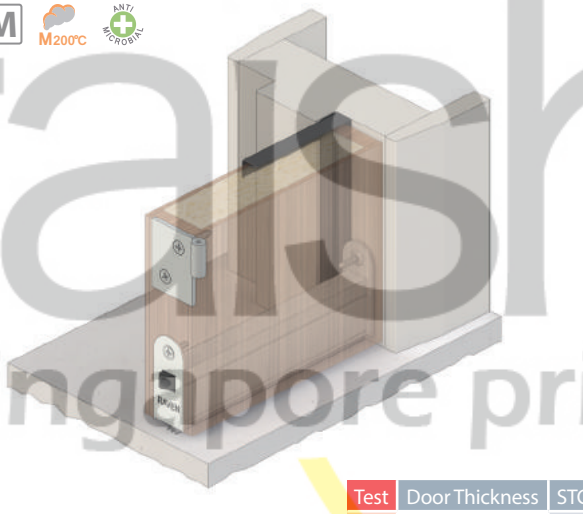
Test	Door Thickness	STC	Rw
022	44mm	30	30

RP94Si RP99Si



Test	Door Thickness	STC	Rw
023	44mm	30	30

RP120 RP8Si



Test	Door Thickness	STC	Rw
024	44mm	31	31

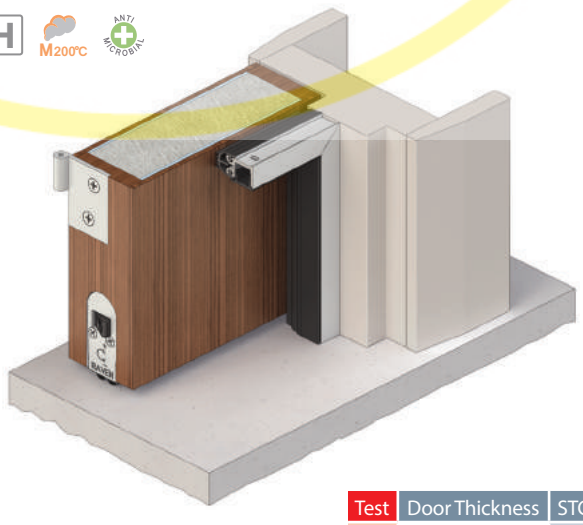
RP10 / RP10Si RP99Si

Test	Door Thickness	STC	Rw
012	44mm	32	32

RP10 / RP10Si RP99Si

Test	Door Thickness	STC	Rw
013	44mm	33	32

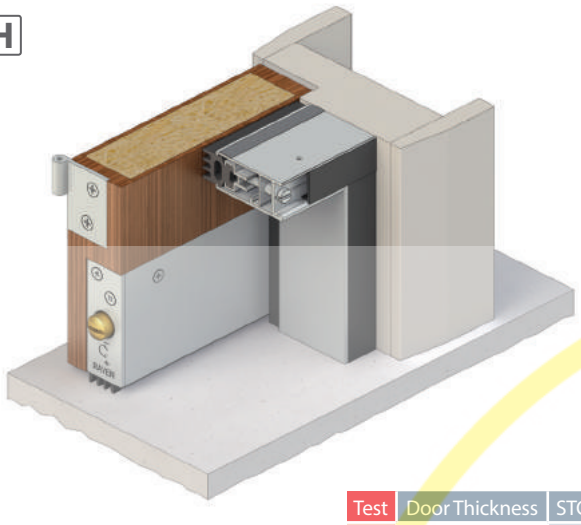
RP10Si RP127Si



Test	Door Thickness	STC	Rw
066	48mm	32	32

RP24 RP38

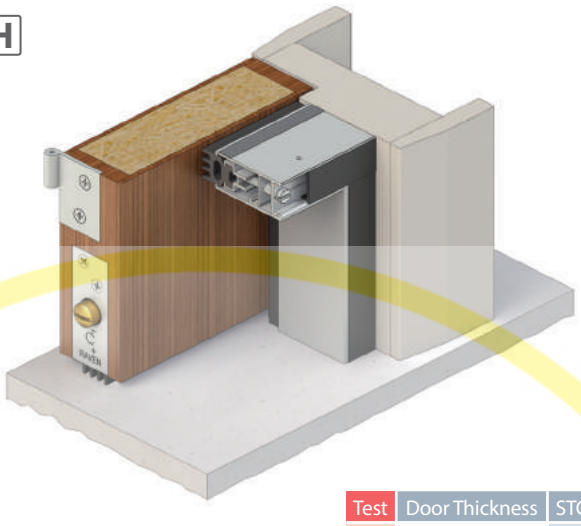
H



Test	Door Thickness	STC	Rw
015	44mm	33	32

RP24 RP70

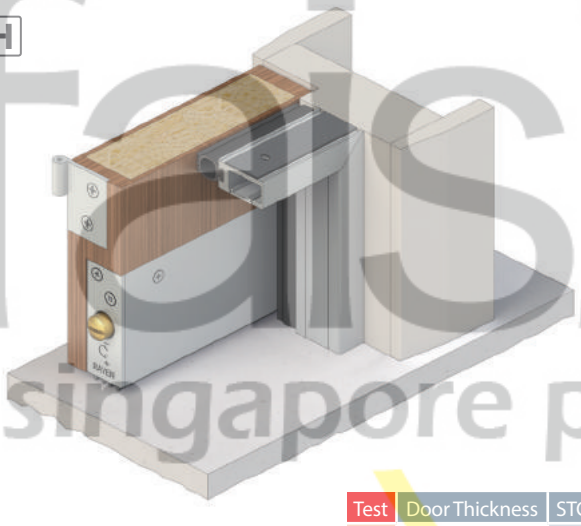
H



Test	Door Thickness	STC	Rw
016	44mm	31	32

RP47Si RP38

H



Test	Door Thickness	STC	Rw
017	44mm	32	32

RP47Si RP70

H

Test	Door Thickness	STC	Rw
018	44mm	32	32

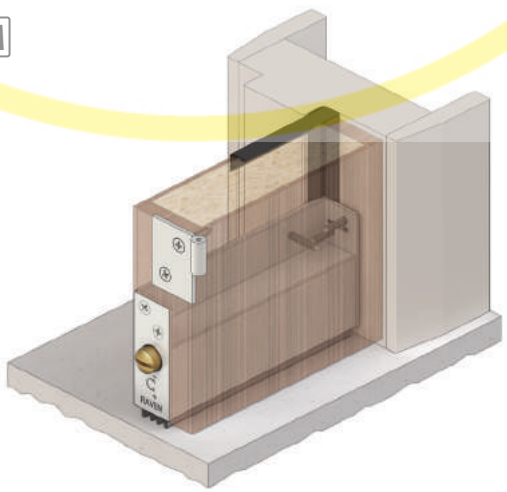
RP93Si RP99Si

M M200°C

Test	Door Thickness	STC	Rw
021	44mm	32	32

RP120 RP38

M

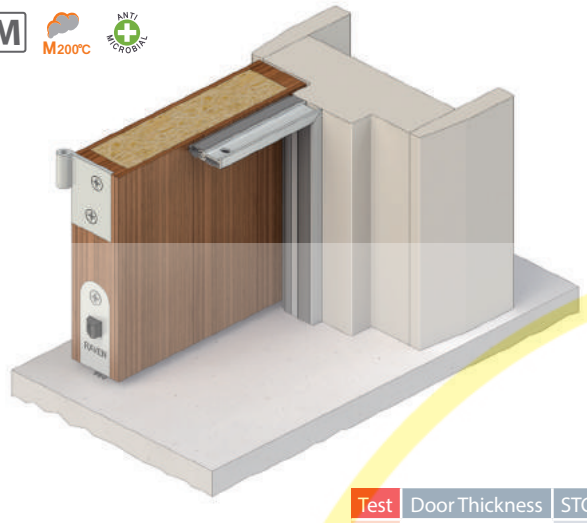


*STC Estimation

Test	Door Thickness	STC	Rw
067	44mm	32*	32

RP78Si RP8Si

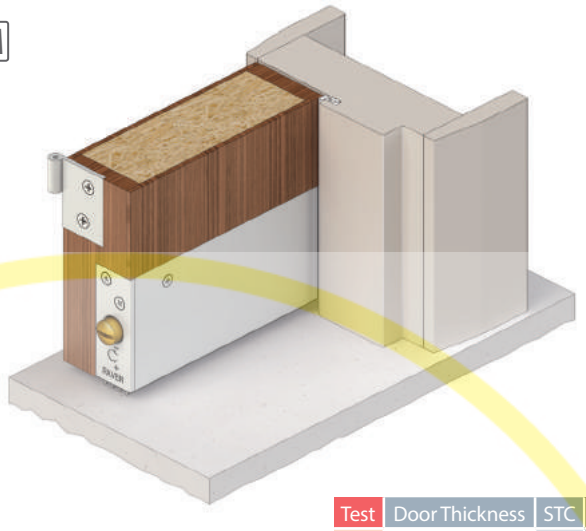
M M200°C ANTI MICROBIAL



Test	Door Thickness	STC	Rw
070	40mm	33	33

RP530 RP38

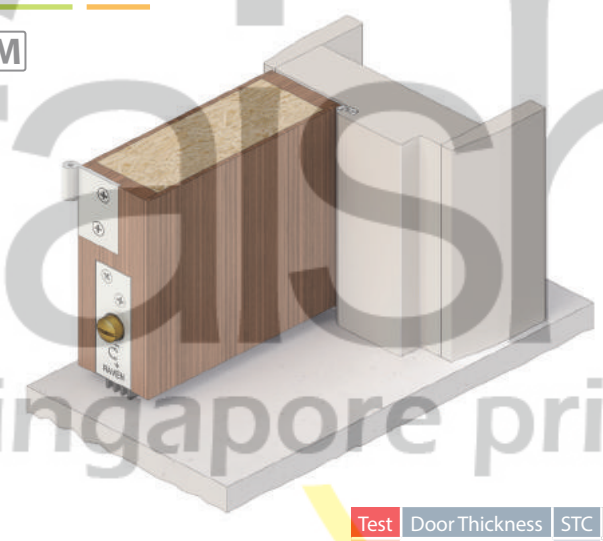
M



Test	Door Thickness	STC	Rw
068	50mm	33	33

RP530 RP70

M



Test	Door Thickness	STC	Rw
069	50mm	33	33

RP10Si RP126Si RP16Si

H M200°C ANTI MICROBIAL

Test	Door Thickness	STC	Rw
071	45mm	30	30

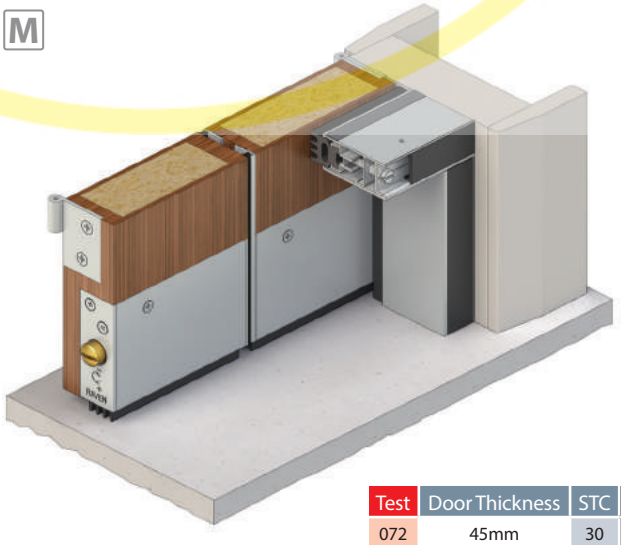
RP10Si RP128Si RP71Si

M M200°C ANTI MICROBIAL

Test	Door Thickness	STC	Rw
035	45mm	30	30

RP24 RP38 RP71

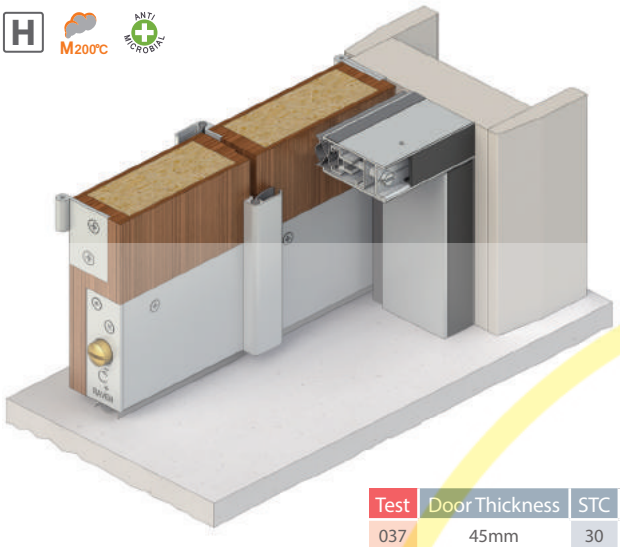
M



Test	Door Thickness	STC	Rw
072	45mm	30	30

RP24Si RP38Si RP16Si

H M200°C ANTI MICROBIAL



Test	Door Thickness	STC	Rw
037	45mm	30	30

RP44Si RP127Si RP71Si

M M200°C ANTI MICROBIAL

Test	Door Thickness	STC	Rw
073	45mm	30	30

RP84Si RP126Si RP16Si

H M200°C ANTI MICROBIAL

Test	Door Thickness	STC	Rw
038	45mm	30	30

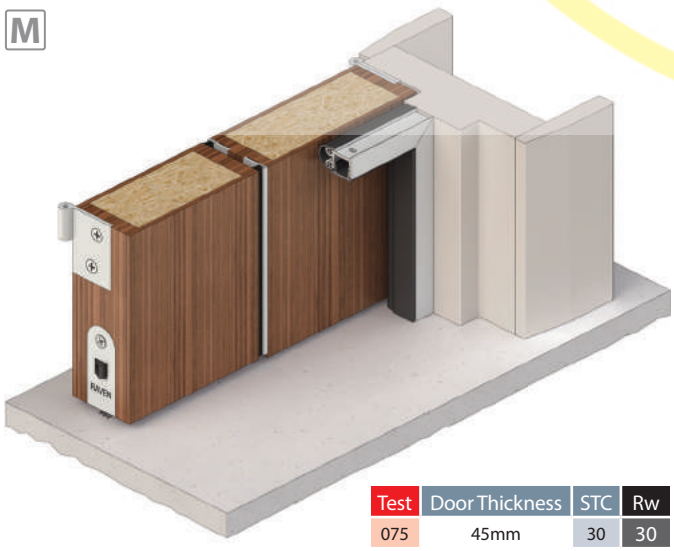
RP84Si RP128Si RP71Si

H M200°C ANTI MICROBIAL

Test	Door Thickness	STC	Rw
040	45mm	30	30

RP84Si RP8Si RP71

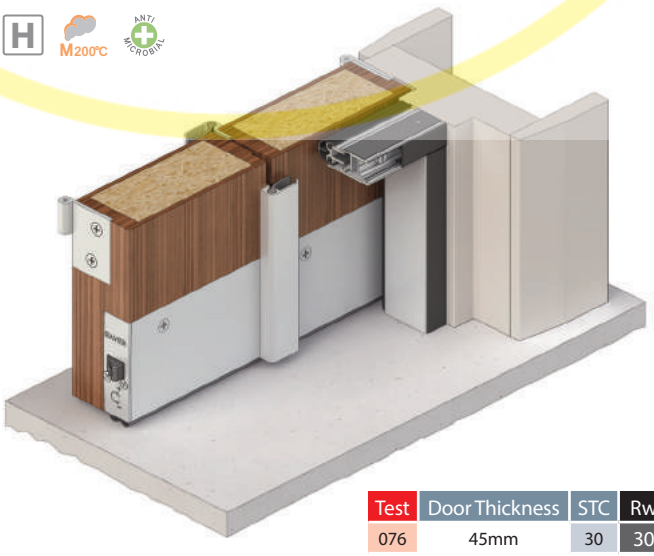
M



Test	Door Thickness	STC	Rw
075	45mm	30	30

RP87HSi RP126Si RP16Si

H M200°C ANTI MICROBIAL



Test	Door Thickness	STC	Rw
076	45mm	30	30

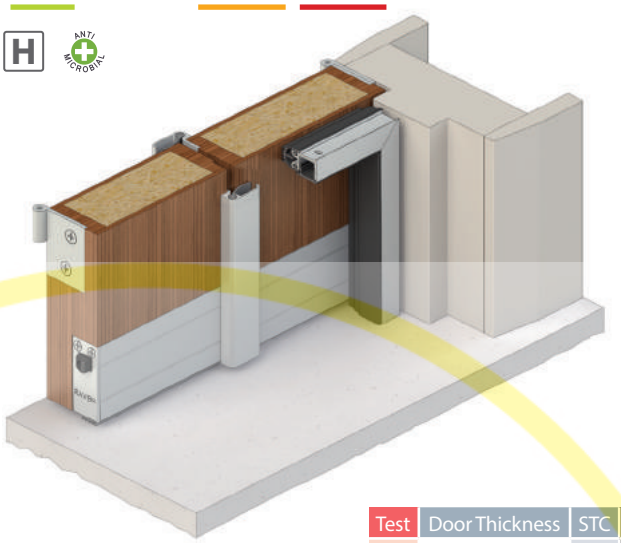
RP84Si RP127Si RP71Si

M M200°C ANTI MICROBIAL

Test	Door Thickness	STC	Rw
039	45mm	31	31

RP10 / RP10Si RP99Si RP16Si

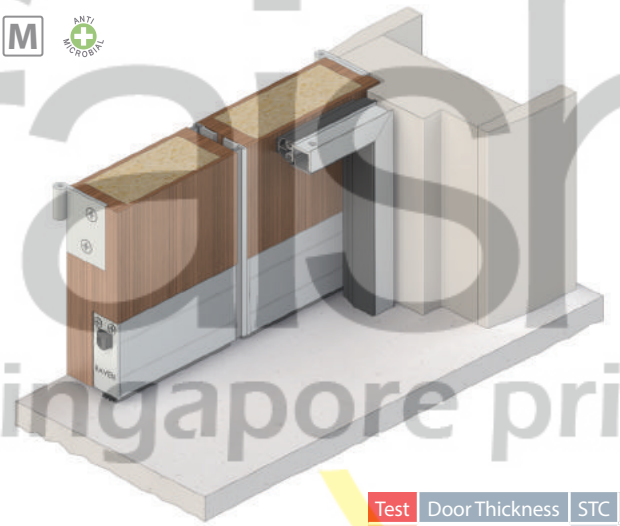
H ANTI MICROBIAL



Test	Door Thickness	STC	Rw
031	44mm	32	32

RP10 / RP10Si RP99Si RP71Si

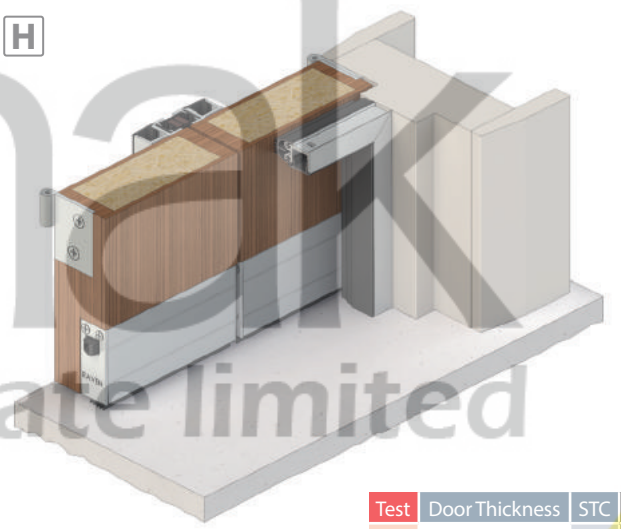
M ANTI MICROBIAL



Test	Door Thickness	STC	Rw
033	44mm	32	32

RP10 / RP10Si RP99Si RP85

H



Test	Door Thickness	STC	Rw
034	44mm	32	32

Noise - Acoustic - Sealing Systems

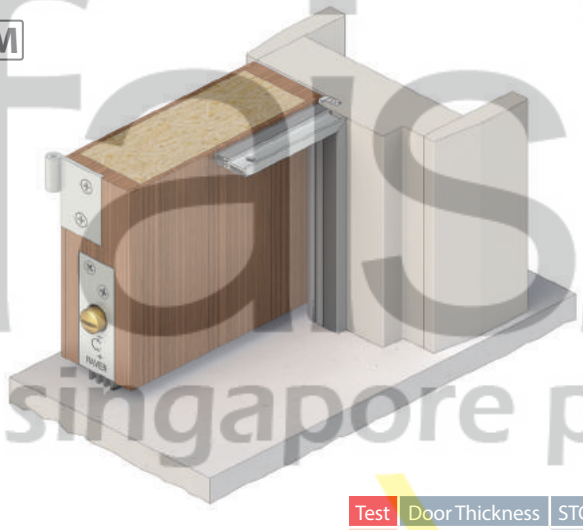
Rw34 - 40 Proprietary Brand Acoustic Doors

Doors tested were proprietary brand acoustic doors.

For more info visit raven.com.au/acoustics-catalogue.

RP78Si RP530 RP70

M



Test	Door Thickness	STC	Rw
077	50mm	33	34

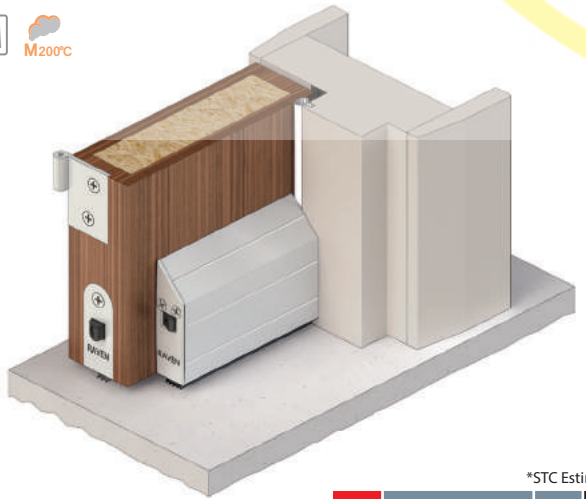
RP10Si RP127Si

H M200°C ANTI MICROBIAL

Test	Door Thickness	STC	Rw
078	68mm	35	36

RP120 RP520 RP8Si RP99Si

M M200°C



*STC Estimation

Test	Door Thickness	STC	Rw
079	44mm	36*	36

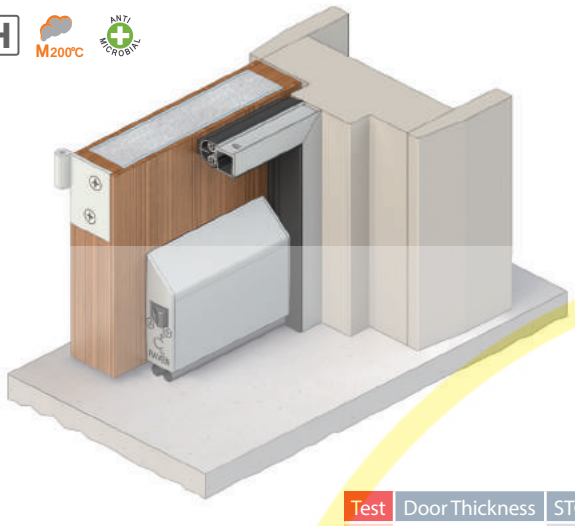
RP78Si RP124 RP8Si

M M200°C ANTI MICROBIAL

Test	Door Thickness	STC	Rw
056	35mm	36	36

RP10Si RP128Si

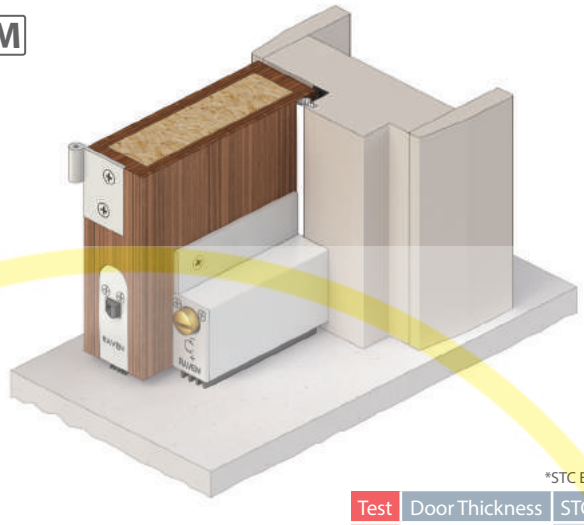
H M200°C ANTI MICROBIAL



Test	Door Thickness	STC	Rw
053	35mm	37	37

RP120 RP520 RP38 RP99Si

M

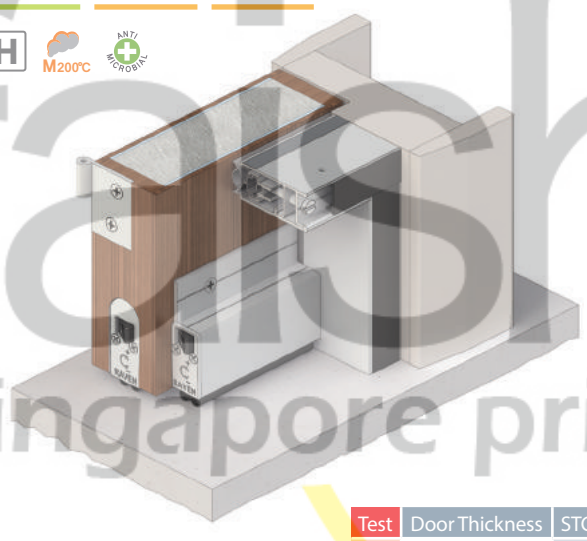


*STC Estimation

Test	Door Thickness	STC	Rw
080	44mm	37*	37

RP24Si RP127Si RP126Si

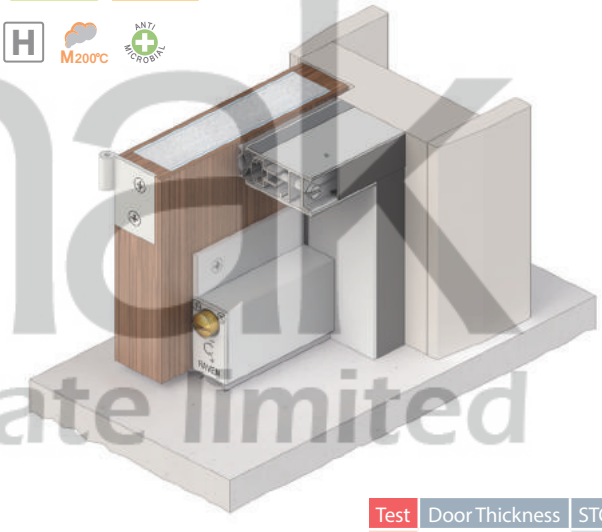
H M200°C ANTI MICROBIAL



Test	Door Thickness	STC	Rw
081	48mm	37	37

RP24Si RP38Si

H M200°C ANTI MICROBIAL



Test	Door Thickness	STC	Rw
082	35mm	37	37

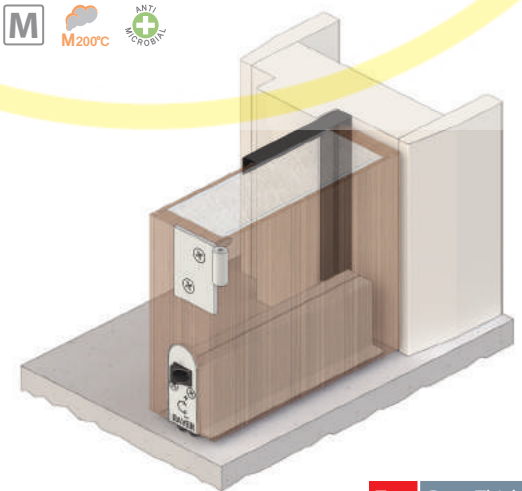
RP78Si RP8Si

M M200°C ANTI MICROBIAL

Test	Door Thickness	STC	Rw
083	35mm	36	37

RP120 RP127Si

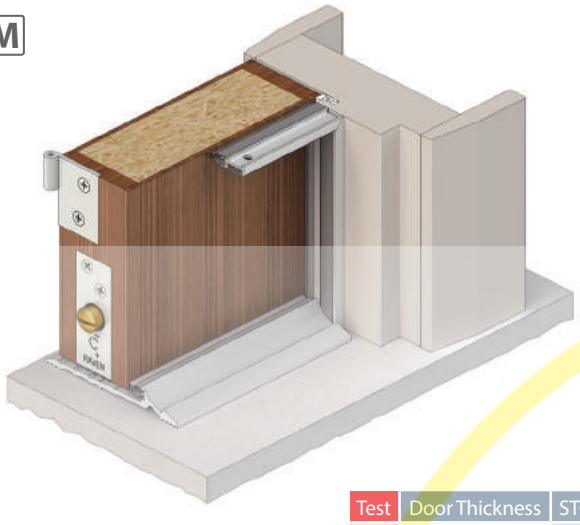
M M200°C ANTI MICROBIAL



Test	Door Thickness	STC	Rw
084	48mm	38	38

RP78Si RP530 RP70 RP117Si

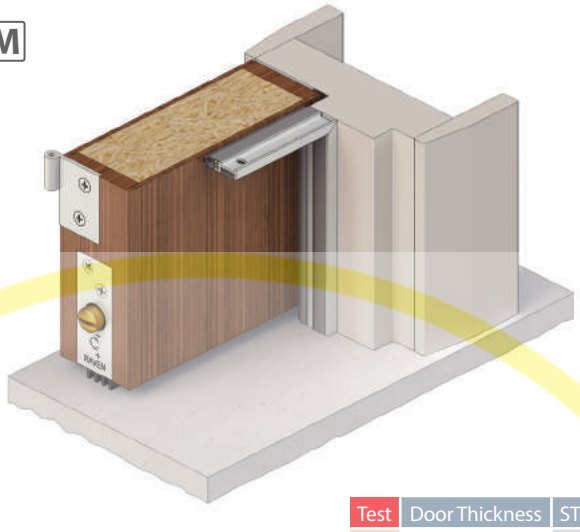
M



Test	Door Thickness	STC	Rw
085	53mm	37	38

RP78Si RP120 RP70

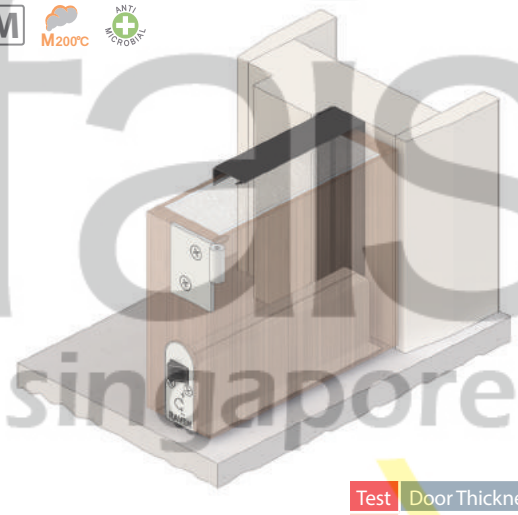
M



Test	Door Thickness	STC	Rw
086	53mm	38	39

RP124 RP127Si

M M200°C ANTI MICROBIAL



Test	Door Thickness	STC	Rw
060	48mm	40	40

Noise - Acoustic - Sealing Systems

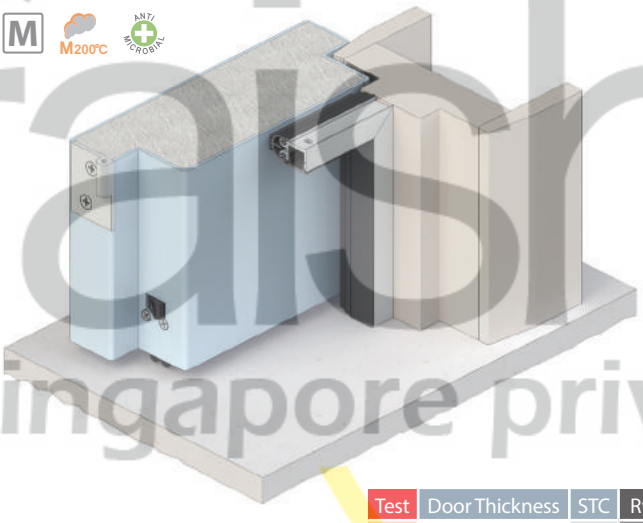
Rw41 - 50+ Proprietary Brand Acoustic Doors

Doors tested were proprietary brand acoustic doors.

For more info visit raven.com.au/acoustics-catalogue.

RP10Si RP124 RP127Si

M M200°C ANTI MICROBIAL



Test	Door Thickness	STC	Rw
089	68mm	42	42

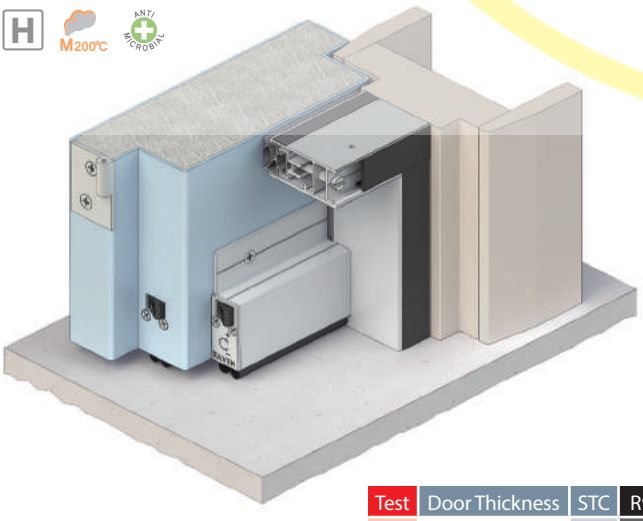
RP24Si RP124 RP8Si RP38Si

M M200°C ANTI MICROBIAL

Test	Door Thickness	STC	Rw
091	35mm	42	42

RP24Si RP127Si RP126Si

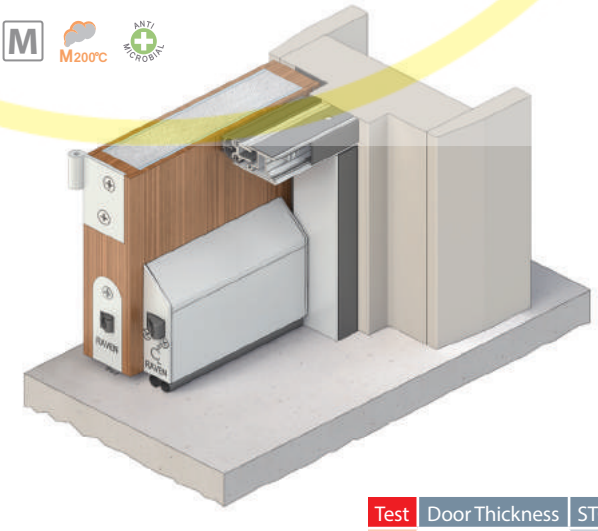
H M200°C ANTI MICROBIAL



Test	Door Thickness	STC	Rw
092	68mm	42	42

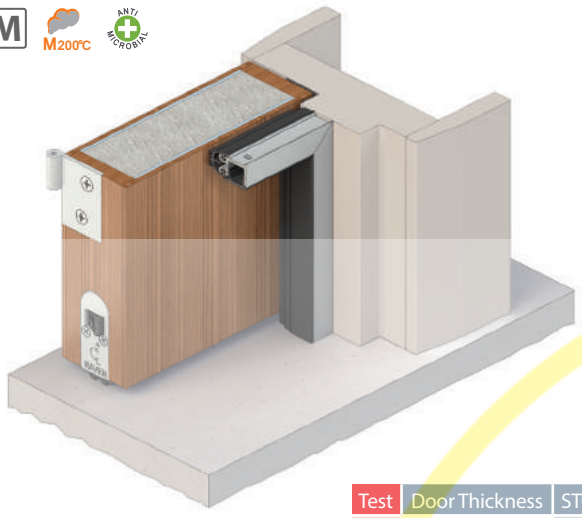
RP87Si RP124 RP8Si RP128Si

M M200°C ANTI MICROBIAL



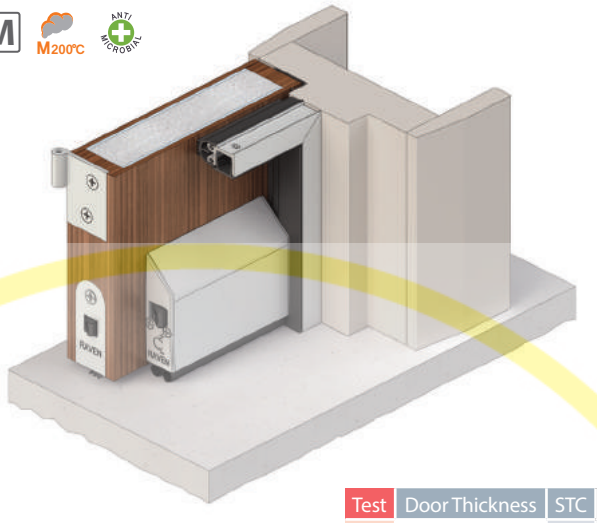
Test	Door Thickness	STC	Rw
058	35mm	42	42

RP10Si RP124 RP127Si



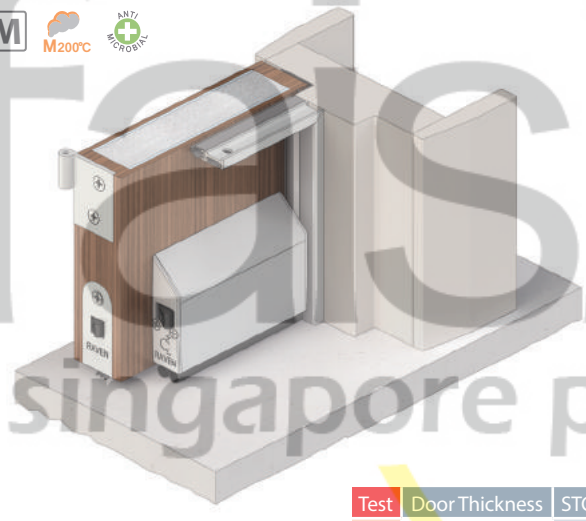
Test	Door Thickness	STC	Rw
054	48mm	43	43

RP10Si RP124 RP8Si RP128Si



Test	Door Thickness	STC	Rw
093	35mm	43	43

RP78Si RP124 RP8Si RP128Si

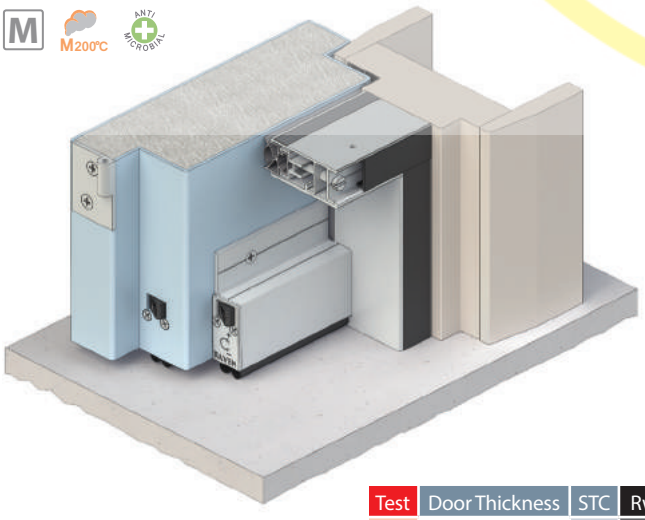


Test	Door Thickness	STC	Rw
094	35mm	43	43

RP10Si RP124 RP127Si RP126Si

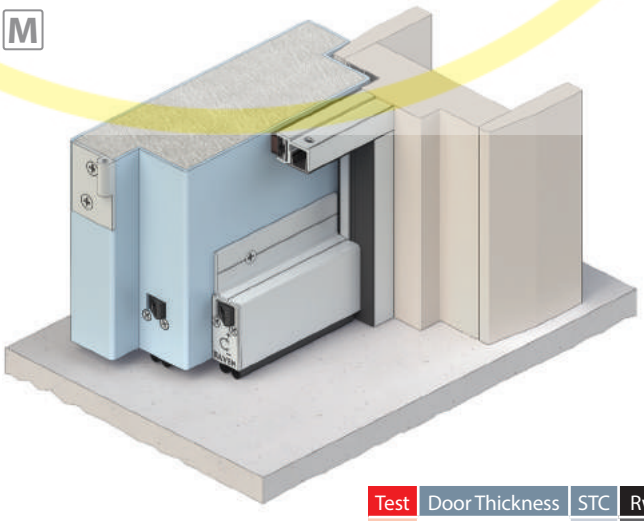
Test	Door Thickness	STC	Rw
055	48mm	45	45

RP24Si RP124 RP127Si RP126Si



Test	Door Thickness	STC	Rw
095	68mm	45	45

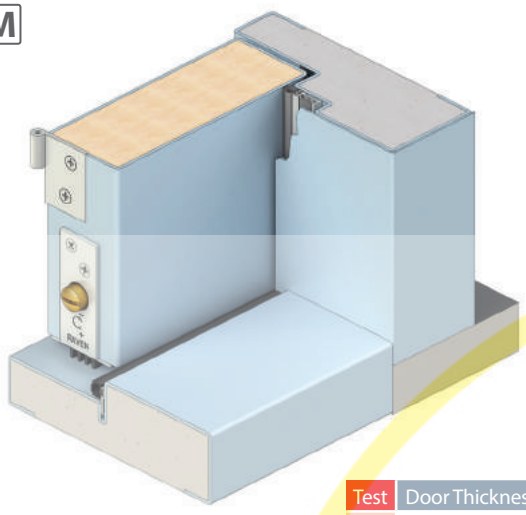
RP85 RP124 RP127Si RP126Si



Test	Door Thickness	STC	Rw
057	68mm	46	46

RP78Si RP120 RP70 RP71 + RP393Si gasket

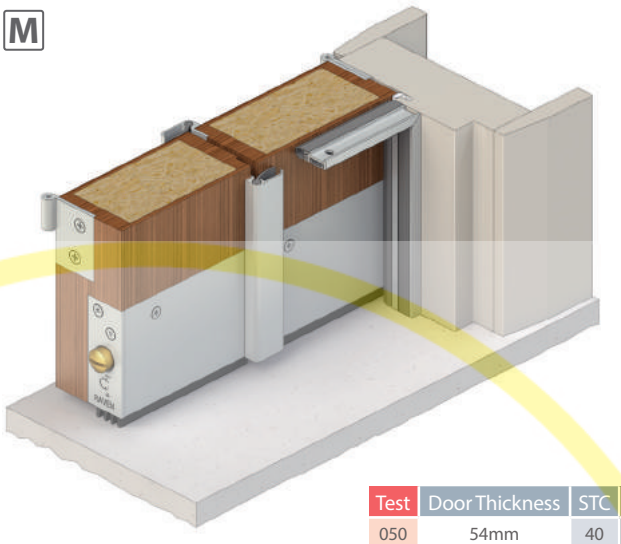
M



Test	Door Thickness	STC	Rw
096	54mm	46	47

RP78Si RP530 RP38 RP16Si

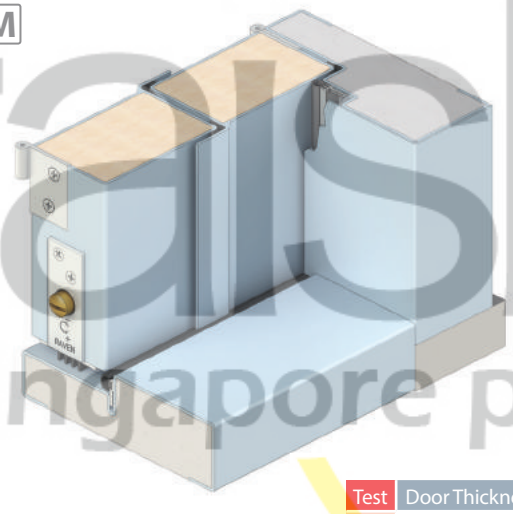
M



Test	Door Thickness	STC	Rw
050	54mm	40	41

RP78Si RP120 RP70 RP120 RP71 + RP393Si gasket

M



Test	Door Thickness	STC	Rw
098	54mm	45	45

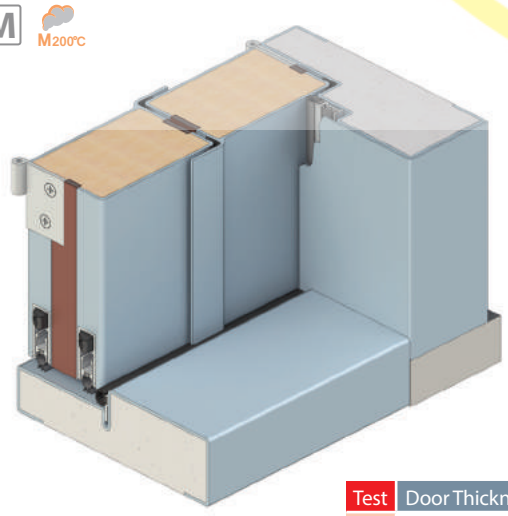
RP78Si RP120 RP2004F RP8Si RP120 RP2004F

M M200°C

Test	Door Thickness	STC	Rw
051	60mm	46	46

RP78Si RP120 RP2004F RP8Si RP71 + RP393Si gasket

M M200°C



Test	Door Thickness	STC	Rw
052	60mm	48	49

Noise - Acoustic - Sealing Systems

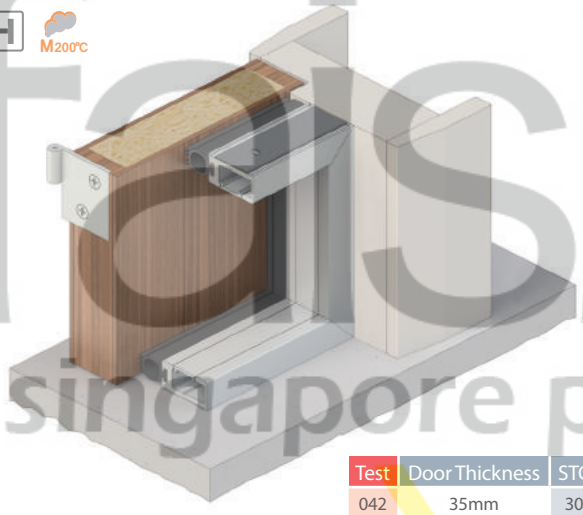
Bulkhead, Interconnecting, Sliding, Pivot

Doors tested were standard solid core timber doors and proprietary brand acoustic doors.

For more info visit raven.com.au/acoustics-catalogue.

RP47Si

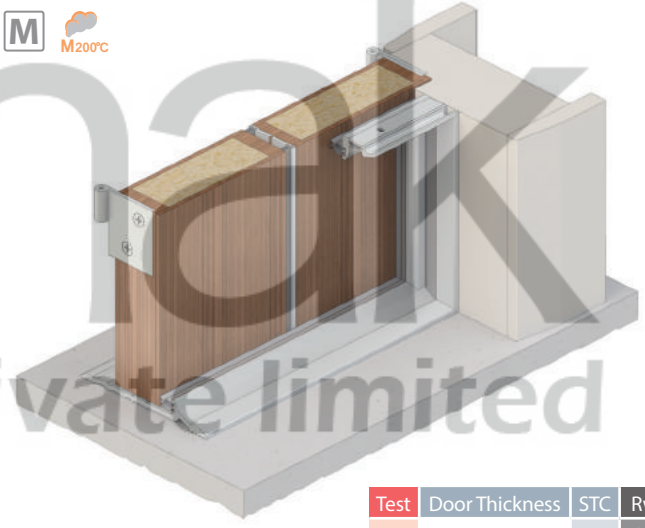
H M200°C



Test	Door Thickness	STC	Rw
042	35mm	30	30
043	44mm	32	32

RP118Si RP71Si RP117Si

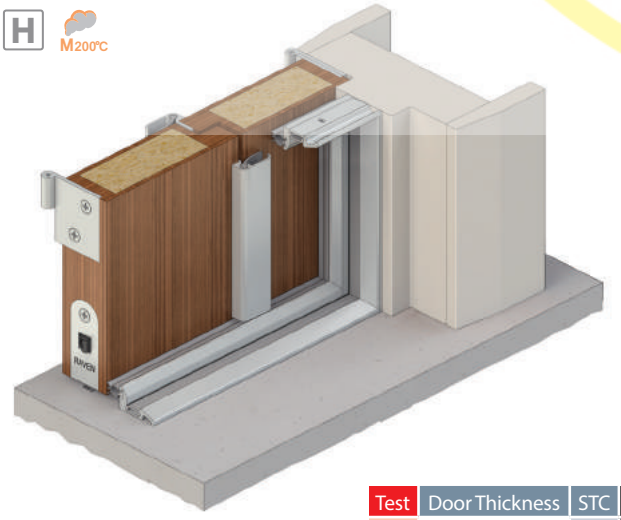
M M200°C



Test	Door Thickness	STC	Rw
047	45mm	30	30

RP118Si RP8Si RP16Si

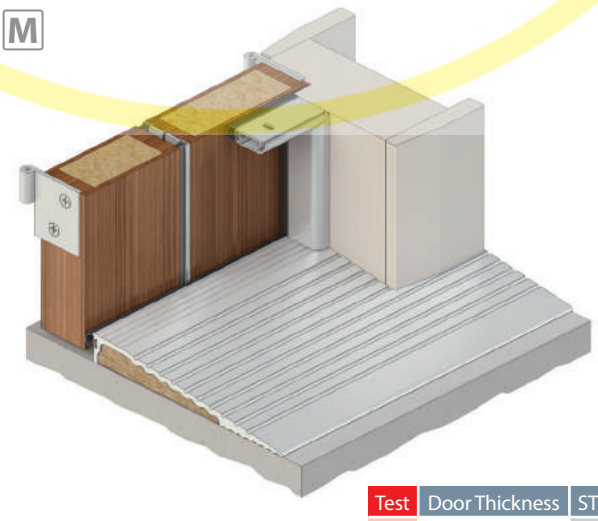
H M200°C



Test	Door Thickness	STC	Rw
048	45mm	30	30

RP93Si RP71Si RP97SI

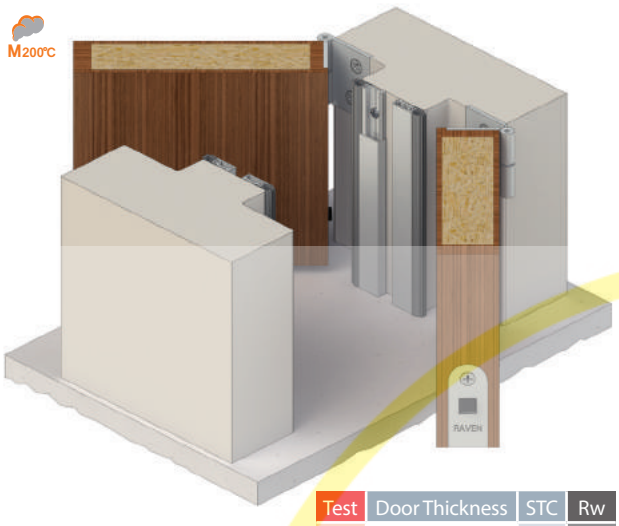
M



Test	Door Thickness	STC	Rw
045	45mm	31	31

RP94Si RP8Si

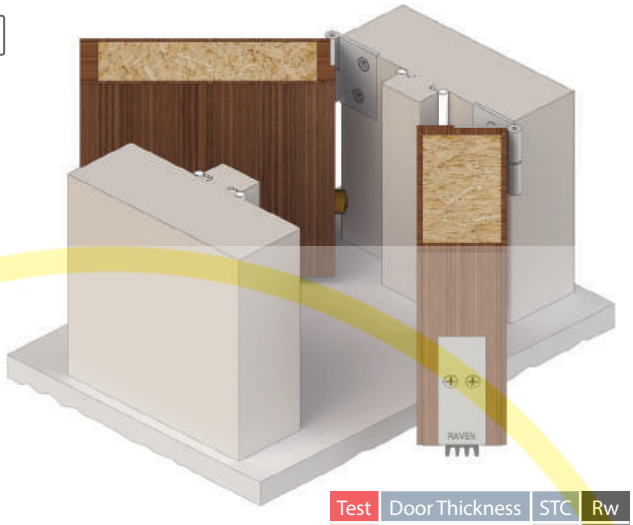
M M200°C



Test	Door Thickness	STC	Rw
026	40mm	38	38

RP530 RP70

M



Test	Door Thickness	STC	Rw
099	50mm	44	44

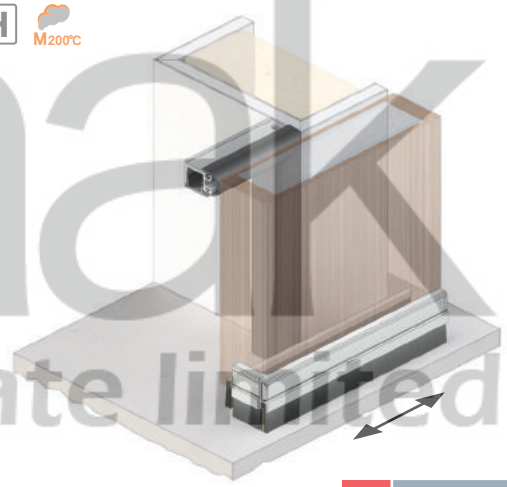
RP78Si RP120 RP70 RP71 + RP393Si gasket

M

Test	Door Thickness	STC	Rw
100	54mm	52	52

RP84Si RP51F RP52F

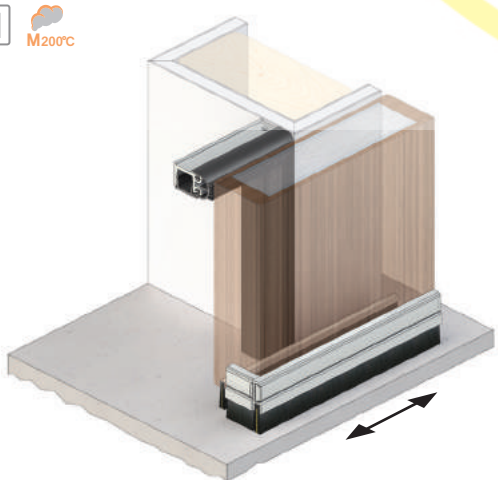
H M200°C



Test	Door Thickness	STC	Rw
063	35mm	29	31

RP10Si RP51F RP52F

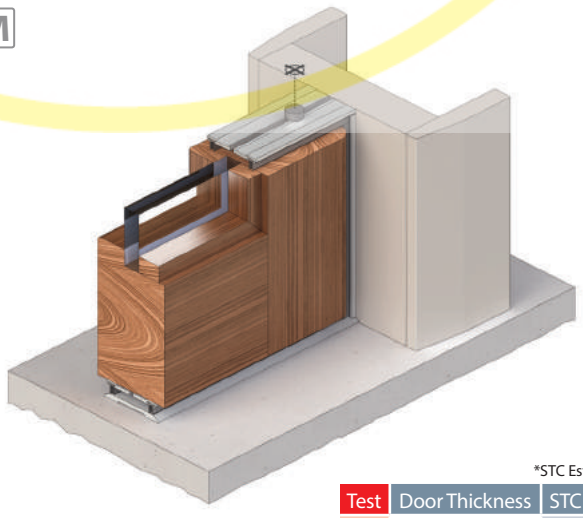
H M200°C



Test	Door Thickness	STC	Rw
061	35mm	34	34

RP71Si RP71Si RP96

M



*STC Estimation

Test	Door Thickness	STC	Rw
101	50mm	35*	35

Door Bottom Seals

Seals designed to fill the gap between the bottom of a door and the floor underneath, are referred to as door bottom seals. Common forms comprise sweep seals that have an aluminium holder with a flexible strip of rubber or brush strip mounted to the door bottom. They are designed to sweep across the floor or engage a raised threshold plate so they clear the floor as the door opens.

Automatic door bottom seals are mechanically spring loaded seals that lift clear of the floor as the door opens and seal tight when the door is closed. Automatic door bottom seals can be face mounted and some models can be fully concealed. They operate over uneven floor surfaces and like sweep seals can be used with Raven threshold plates that offer added protection against rain infiltration where doorways may be exposed to more severe weather conditions.

Most Raven door bottom seals are easily adjusted after installation without removing the door. This ensures an optimum seal is achieved and maximum performance is maintained in the event of minor building movement.

RP3

A cam activated, lifting action, automatic door bottom seal. It is quick and easy to install without cutting or removing the door and uses concealed fasteners. This DIY product has been granted an Australian Design Award. Ideal for residential and light commercial applications such as motels and retirement villages.

Can be used in conjunction with Raven threshold plates.

Location: Bottom of single inward opening butt hinged doors.

Min/Max Gap: 3mm to 16mm.

Finish: Satin clear (silver), bronze, bright gold or black (920mm only) anodised aluminium (15µm).

Fixing: Screw fix. Zinc plated, cross recess head S.T. screws supplied. Fixing holes are pre-slotted.

Seal: RP303. Black EPDM or TPE.

Sizes: 920mm and 1220mm maximum (between door stops).

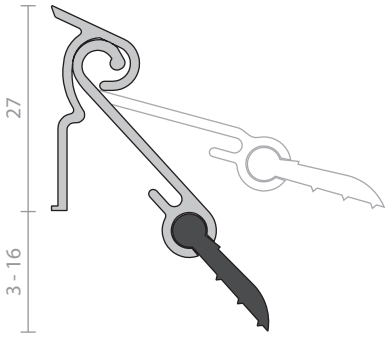
Approvals

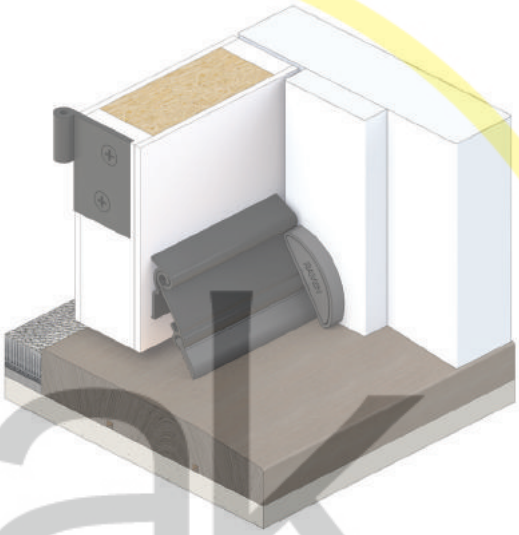
Fire Gasket flammability index < 5 when tested to AS1530.2.

Energy NCC Pt. 3.12.3.3 & J3.4.

Durability Tested to over 1,000,000 operating cycles without failure.

Patented.





RP6Si

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. RP6Si 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 13mm x 25mm groove into the bottom of single and double butt hinged timber and metal doors.

Min/Max Gap: 3mm to 12mm.

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

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

Seal: RP306Si. Grey silicon rubber (SE).

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

Approvals

Acoustic AUS/NZ: NCC Spec. F5.5.
UK/EU: Approved Document E. Rated to BS EN ISO 717-1.

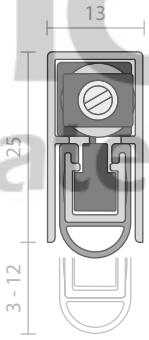
Fire AUS/NZ: NCC Spec. C3.4. AS1530.4 & AS/NZS 1905.1. NZ BC Compliance Doc. C/AS1 6.19.2 & App. C6.1.1.
UK/EU: Approved Document B. BS 476 Pt. 20 & 22 (similar to BS EN 1634-1).
FRL & FRR-/240/60 and FD240.
Gasket flammability index 1 when tested to AS1530.2.

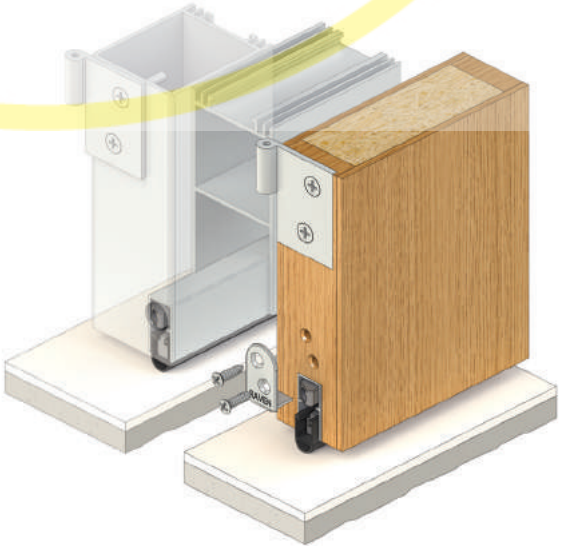
Smoke NCC Spec. C3.4. AS1530.7 & BS EN 1634-3. Meets smoke leakage rates specified in AS6905 & EN 13501-2 "Sa", "Sm".

Energy NCC Pt. 3.12.3.3 & J3.4.

Durability Tested to over 1,000,000 operating cycles without failure.

Registered Design.





RP8Si

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.

Approvals

ANSI/BHMA A156.22

Acoustic AUS/NZ: NCC Spec. F5.5.
UK/EU: Approved Document E. Rated to BS EN ISO 717-1.

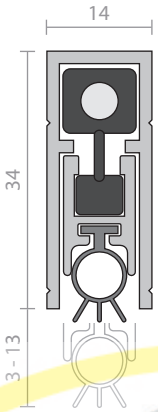
Fire AUS/NZ: NCC Spec. C3.4. AS1530.4 & AS/NZS 1905.1. NZ BC Compliance Doc. C/AS1 6.19.2 & App. C6.1.1.
UK/EU: Approved Document B. BS 476 Pt. 20 & 22 (similar to BS EN 1634-1).
FRL & FRR-/240/60 and FD240.
Gasket flammability index 1 when tested to AS1530.2.

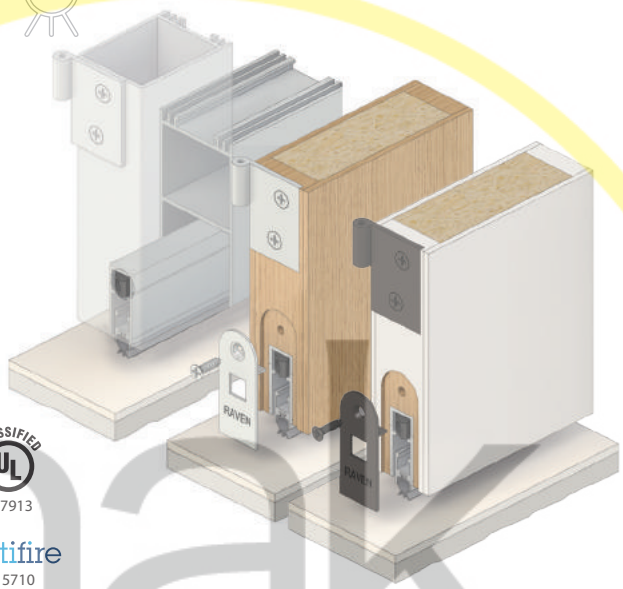
Smoke NCC Spec. C3.4. AS1530.7 & BS EN 1634-3. Meets smoke leakage rates specified in AS6905 & EN 13501-2 "Sa", "Sm".

Energy NCC Pt. 3.12.3.3 & J3.4.

Durability Tested to over 1,000,000 operating cycles without failure.

Patented.





R37913

CF 5710

RP35Si

An adjustable, 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 or stop on its adjustable strike.

Location: Face mounted or semi-morticed into the bottom of solid core single and double butt hinged doors. The RP35Si can also be face mounted to the bottom of metal doors.

Min/Max Gap: 3mm to 13mm.

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

Fixing: Concealed screw fix. Zinc plated, cross recess head S.T. screws, colour matched escutcheon plates and cover strip supplied. Fixing holes are pre-slotted.

Seal: RP308Si. Grey or black silicon rubber (SE).

Sizes: 1220mm, 1070mm, 920mm, 820mm, 600mm, 380mm, 300mm, 200mm to 150mm (min). Seals cut back to exact size.

Approvals

ANSI/BHMA A156.22.

Acoustic AUS/NZ: NCC Spec. F5.5.
UK/EU: Approved Document E. Rated to BS EN ISO 717-1.

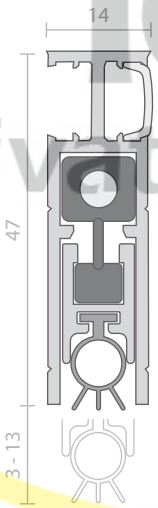
Fire AUS/NZ: NCC Spec. C3.4. AS1530.4 & AS/NZS 1905.1. NZ BC Compliance Doc. C/AS1 6.19.2 & App. C6.1.1.
UK/EU: Approved Document B. BS 476 Pt. 20 & 22 (similar to BS EN 1634-1).
FRL & FRR-/240/60 and FD240.
Gasket flammability index 1 when tested to AS1530.2.

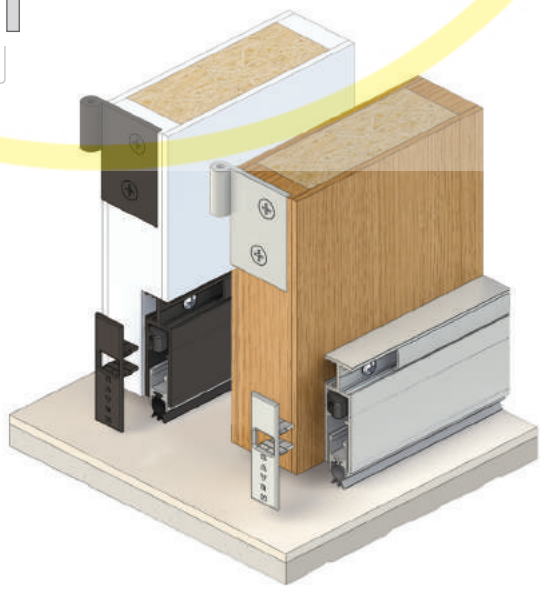
Smoke NCC Spec. C3.4. AS1530.7 & BS EN 1634-3. Meets smoke leakage rates specified in AS6905 & EN 13501-2 "Sa", "Sm".

Energy NCC Pt. 3.12.3.3 & J3.4.

Durability Tested to over 1,000,000 operating cycles without failure.

Patented, Registered Design.

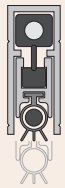




R37913

CF 5710

RP8FZ p.110



Intumescent fire and hot smoke seal for fire engineered solutions.

RP38

A heavy duty, automatic door bottom seal that is spring loaded to lift clear of the floor when the door is opened. It is self levelling and reversible for left and right handed operation. Acoustically designed, it features an EPDM foam gasket for acoustic door applications and doubles as a kick plate when semi-morticed. Operated automatically by pressure against the door jamb or stop on its adjustable brass strike.

Location: Face mounted or semi-morticed into bottom of single and double butt hinged doors. For semi-mortice minimum door thickness of 50mm for rebated meeting stiles and 40mm for plain meeting stiles is required. The RP38 can also be face mounted to the bottom of metal doors.

Min/Max Gap: 3mm to 13mm.

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

Fixing: Screw fix. Colour matched escutcheon plates and zinc plated, cross recess head S.T. screws supplied.

Seal: RP338. Black EPDM sponge (SE).

Sizes: 1500mm, 1220mm, 1070mm, 920mm, 610mm, 450mm to 300mm(min). Seals cut back to exact size.

Approvals

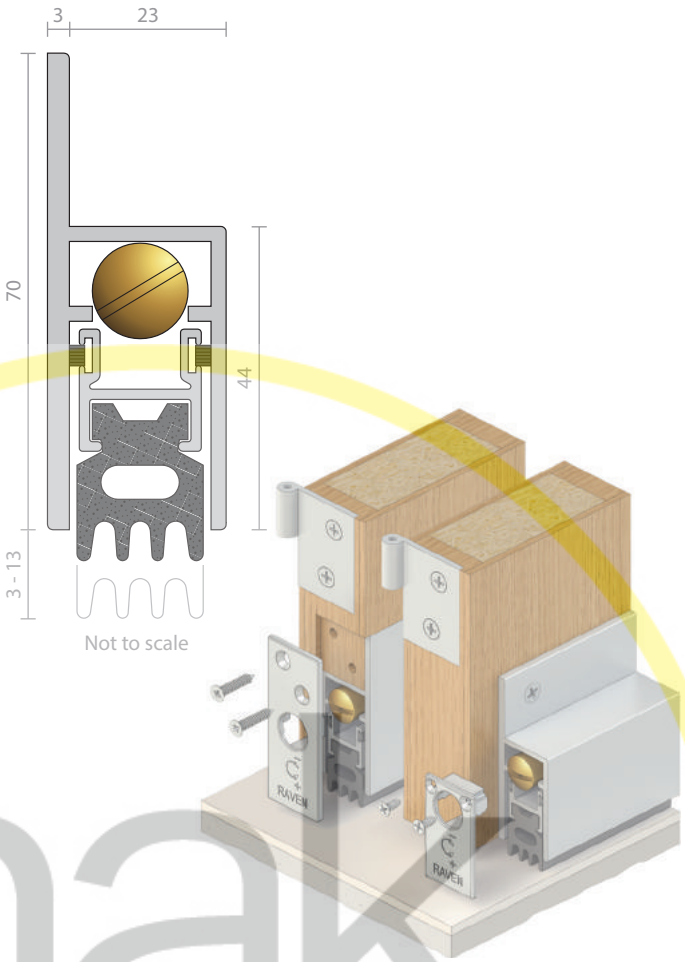
Acoustic AUS/NZ: NCC Spec. F5.5.
UK/EU: Approved Document E. Rated to BS EN ISO 717-1.

Fire & Smoke AUS/NZ: NCC Spec. C3.4. AS1530.4 & AS/NZS 1905.1. NZ BC Compliance Doc. C/AS1 6.19.2 & App. C6.1.1.
UK/EU: Approved Document B. BS 476 Pt. 20 & 22 (similar to BS EN 1634-1).
FRL & FRR-/240/30 and FD240.

Energy NCC Pt. 3.12.3.3 & J3.4.

Durability Tested to over 1,000,000 operating cycles without failure.

Patented.



RP38Si

A heavy duty, automatic door bottom seal that is spring loaded to lift clear of the floor when the door is opened. It is self levelling and reversible for left and right handed operation. Acoustically designed, it features a silicon gasket for medium temperature smoke and fire door applications. Doubles as a kick plate when semi-morticed. Operated automatically by pressure against the door jamb or stop on its adjustable brass strike.

Location: Face mounted or semi-morticed into bottom of single and double butt hinged doors. For semi-mortice minimum door thickness of 50mm for rebated meeting stiles and 40mm for plain meeting stiles is required. Can be face mounted to the bottom of metal doors.

Min/Max Gap: 3mm to 13mm.

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

Fixing: Screw fix. Colour matched escutcheon plates and zinc plated, cross recess head S.T. screws supplied.

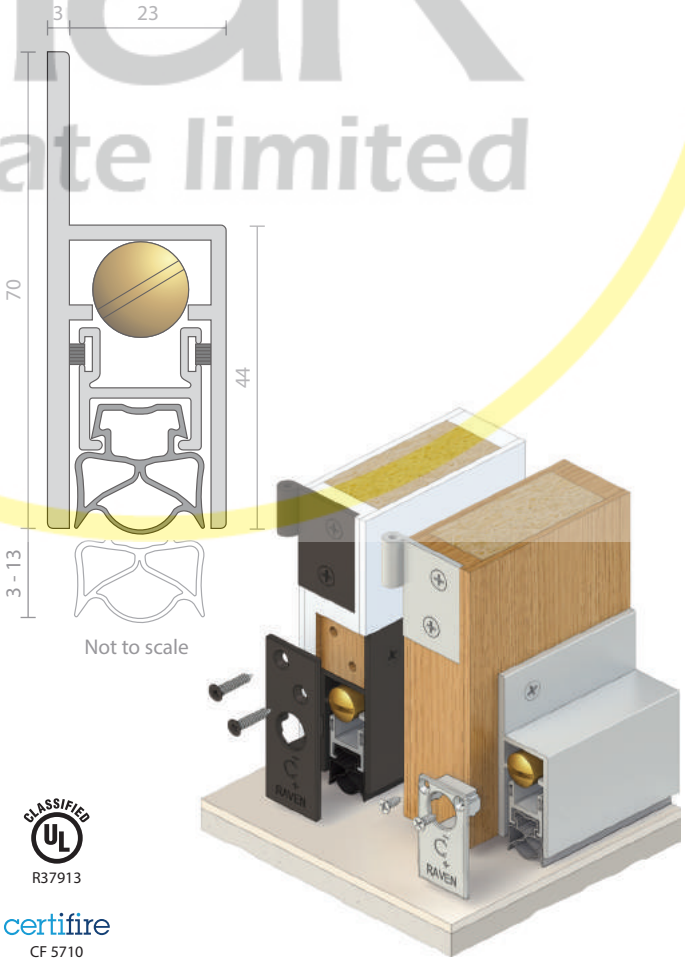
Seal: RP338Si. Grey or black silicon rubber (SE).

Sizes: 1500mm, 1220mm, 1070mm, 920mm, 610mm, 450mm to 300mm (min). Seals cut back to exact size.

Approvals

Acoustic AUS/NZ: NCC Spec. F5.5.
UK/EU: Approved Document E. Rated to BS EN ISO 717-1.
Fire AUS/NZ: NCC Spec. C3.4. AS1530.4 & AS/NZS 1905.1. NZ BC Compliance Doc. C/AS1 6.19.2 & App. C6.1.1.
UK/EU: Approved Document B. BS 476 Pt. 20 & 22 (similar to BS EN 1634-1).
FRL & FRR-/240/60 and FD240.
Gasket flammability index 1 when tested to AS1530.2.
Smoke NCC Spec. C3.4. AS1530.7 & BS EN 1634-3. Meets smoke leakage rates specified in AS6905 & EN 13501-2 "Sa", "Sm".
Energy NCC Pt. 3.12.3.3 & J3.4.
Durability Tested to over 1,000,000 operating cycles without failure.

Patented, Registered Design.



R37913

CF 5710

RP60

An adjustable, automatic door bottom seal which is spring loaded to lift clear of the floor when the door is opened. Operated automatically by pressure against the door stop on its adjusting screw and incorporates concealed fixings. The RP60 is self levelling and can be used in conjunction with Raven threshold plates such as the RP13 and RP82.

Location: Face mounted on the bottom of single and double butt hinged doors.

Min/Max Gap: 3mm to 15mm.

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

Fixing: Concealed screw fix. Zinc plated, cross recess head S.T. screws and cover strip supplied. Fixing holes are pre-slotted.

Seal: RP460. Black TPE.

Sizes: 920mm maximum (between door stops). Unit cuts back to 450mm (min).

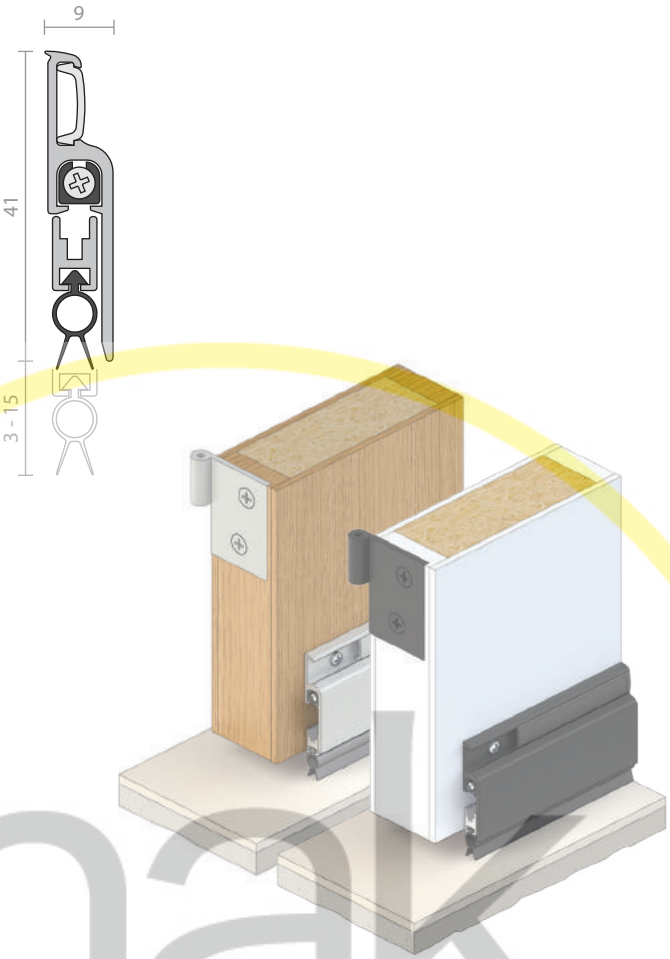
Approvals

Fire AUS/NZ: NCC Spec. C3.4. AS1530.4 & AS/NZS 1905.1. NZ BC Compliance Doc. C/AS1 6.19.2 & App. C6.1.1.
UK/EU: Approved Document B. BS 476 Pt. 20 & 22 (similar to BS EN 1634-1).
FRL & FRR-/240/30 and FD240.

Energy NCC Pt. 3.12.3.3 & J3.4.

Durability Tested to over 500,000 operating cycles without failure.

Patented.



RP70

A heavy duty, fully morticed, automatic door bottom seal that is spring loaded to lift clear of the floor when the door is opened. It is self levelling and reversible for left and right handed operation. Acoustically designed, featuring an EPDM foam gasket for acoustic door applications. RP70 is operated automatically by pressure against the door jamb on its adjustable brass strike.

Location: Fully morticed into the bottom of single and double butt hinged doors (minimum door thickness of 45mm). For double doors, plain meeting stiles are required.

Min/Max Gap: 3mm to 13mm.

Finish: Satin clear (silver) anodised aluminium (15µm).

Fixing: Screw fix. Colour matched escutcheon plates and zinc plated, cross recess head S.T. screws supplied.

Seal: RP338. Black EPDM sponge (SE).

Sizes: 1500mm, 1220mm, 1070mm, 920mm, 610mm, 450mm to 300mm (min). Seals cut back to exact size.

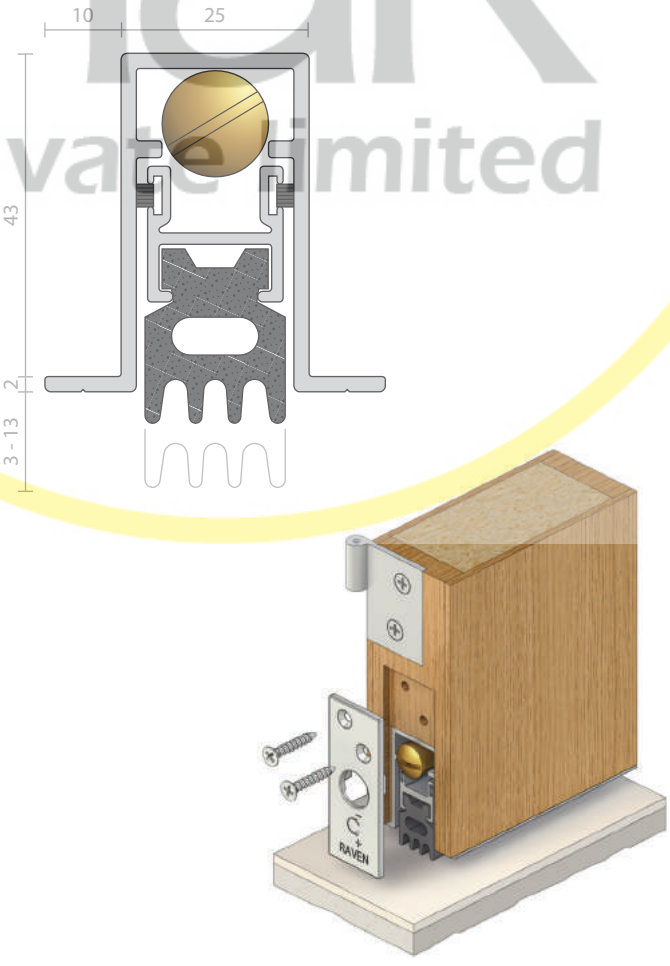
Approvals

Acoustic AUS/NZ: NCC Spec. F5.5.
UK/EU: Approved Document E. Rated to BS EN ISO 717-1.

Fire AUS/NZ: NCC Spec. C3.4. AS1530.4 & AS/NZS 1905.1.
UK/EU: Approved Document B. BS 476 Pt. 20 & 22 (similar to BS EN 1634-1).
FRL & FRR-/240/30 and FD240.

Energy NCC Pt. 3.12.3.3 & J3.4.

Durability Tested to over 1,000,000 operating cycles without failure.



RP70Si

A heavy duty, fully mortiched, automatic door bottom seal that is spring loaded to lift clear of the floor when the door is opened. It is self levelling and reversible for left and right handed operation. Acoustically designed, featuring a silicon gasket for smoke and fire door applications. RP70Si is operated automatically by pressure against the door jamb on its adjustable brass strike.

Location: Fully morticed into the bottom of single and double butt hinged doors (minimum door thickness of 45mm). For double doors, plain meeting stiles are required.

Min/Max Gap: 3mm to 13mm.

Finish: Satin clear (silver) anodised aluminium (15µm).

Fixing: Screw fix. Colour matched escutcheon plates and zinc plated, cross recess head S.T. screws supplied.

Seal: RP338Si. Grey silicon rubber (SE).

Sizes: 1500mm, 1220mm, 1070mm, 920mm, 610mm, 450mm to 300mm (min). Seals cut back to exact size.

Approvals

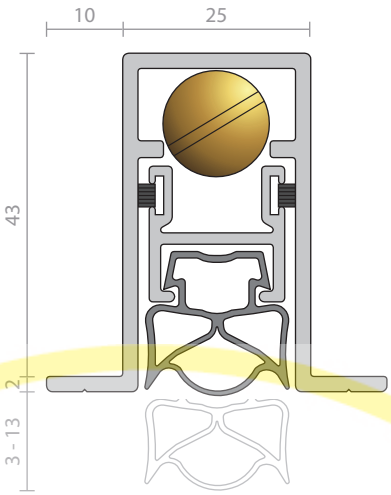
ANSI/BHMA A156.22

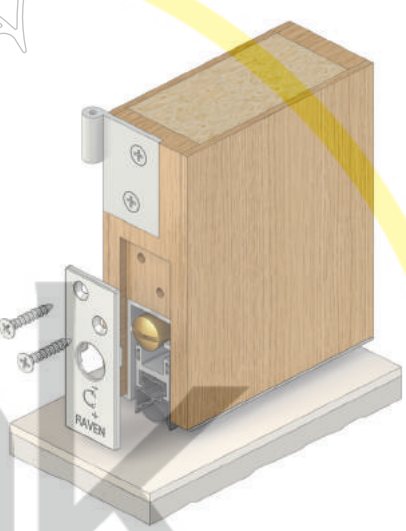
Fire AUS/NZ: NCC Spec. C3.4. AS1530.4 & AS/NZS 1905.1. NZ BC Compliance Doc. App. C6.1.1.
UK/EU: Approved Document B. BS 476 Pt. 20 & 22 (similar to BS EN 1634-1).
FRL & FRR-/240/30 and FD240.
Gasket flammability index 1 when tested to AS1530.2.

Smoke NCC Spec. C3.4. AS1530.7 & BS EN 1634-3. Meets smoke leakage rates specified in AS6905 & EN 13501-2 "Sa", "Sm".

Energy NCC Pt. 3.12.3.3 & J3.4.

Durability Tested to over 1,000,000 operating cycles without failure.





CLASSIFIED UL R37913

certifire CF 5710

RP92Si

A heavy duty, adjustable, automatic door bottom seal that is spring loaded to lift clear of the floor when the door is opened. Ideal for butt hinged doors with large gaps such as where internal access ramps are used and large clearances are necessary. The RP92Si can accommodate ramped floors/sills with gradients up to 1:8 and utilises an aesthetic extruded aluminium cover for concealed fixing.

Location: Face mounted on the bottom of timber or metal single and double butt hinged doors.

Min/Max Gap: 25mm to 55mm. Larger gaps can be accommodated if set lower on the door bottom and smaller gaps if set higher on the door bottom (user determined).

Finish: Satin clear (silver) anodised aluminium (15µm) with black anodised inner or paint at extra cost (cover plate only).

Fixing: Concealed screw fix. Adhesive striker plate, escutcheon plates and zinc plated, cross recess head S.T. screws supplied.

Seal: RP347Si. Black silicon rubber (SE).

Sizes: 1200mm, 1070mm, 920mm, 820mm to 600mm(min). Seals cut back to exact size.

Approvals

Access & Mobility AUS/NZ: NCC D3, D3.2.
UK/EU: Approved Document M.

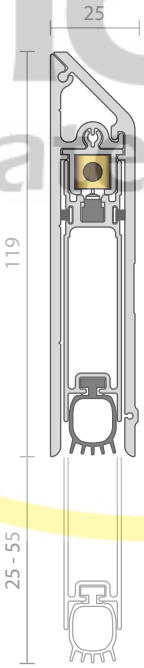
Fire Gasket flammability index 1 when tested to AS1530.2.

Smoke AUS/NZ: NCC Spec. C3.4. NZ BC Compliance Doc. C/AS1 6.19.2(b).
UK/EU: Approved Document B.

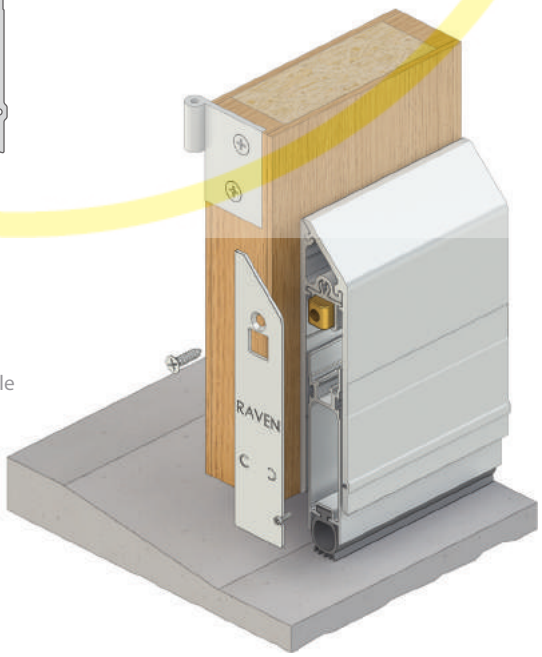
Energy NCC Pt. 3.12.3.3 & J3.4.

Durability Tested to over 1,000,000 operating cycles without failure.

Patented.



Not to scale



RP99Si

A heavy duty, adjustable, automatic door bottom seal that is spring loaded to lift clear of the floor when the door is opened. Acoustically designed, with a silicon gasket for medium temperature smoke applications. Operated automatically by pressure on the door jamb or stop by its adjustable strike. Includes aluminium cover for concealed fixing for face mounted installation.

Location: Face mounted, semi-morticed or fully morticed into single and double solid core butt hinged doors. Can be fitted into the bottom rail of metal doors by the fabricator. Minimum door thickness of 40mm for semi and fully morticed installations. For double door fully morticed installations, plain meeting stiles required.

Min/Max Gap: 3mm to 19mm.

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

Fixing: Concealed screw fix. Zinc plated, cross recess head S.T. screws supplied. Colour matched escutcheon plates and face mount aluminium angle included.

Seal: RP347Si. Black silicon rubber (SE).

Sizes: 1220mm, 1070mm, 920mm, 820mm, 720mm, 600mm, 380mm to 295mm(min). Seals cut back to exact size.

Approvals

Acoustic AUS/NZ: NCC Spec. F5.5.
UK/EU: Approved Document E. Rated to BS EN ISO 717-1.

Fire AUS/NZ: NCC Spec. C3.4. AS1530.4 & AS/NZS 1905.1. NZ BC Compliance Doc. C/AS1 6.19.2 & App. C6.1.1.

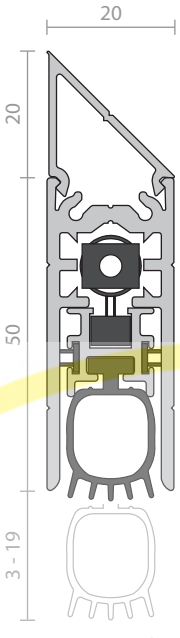
UK/EU: Approved Document B. BS 476 Pt. 20 & 22 (similar to BS EN 1634-1). FRL & FRR-/240/60 and FD240. Gasket flammability index 1 when tested to AS1530.2.

Smoke NCC Spec. C3.4. AS1530.7 & BS EN 1634-3. Meets smoke leakage rates specified in AS6905 & EN 13501-2 "Sa", "Sm".

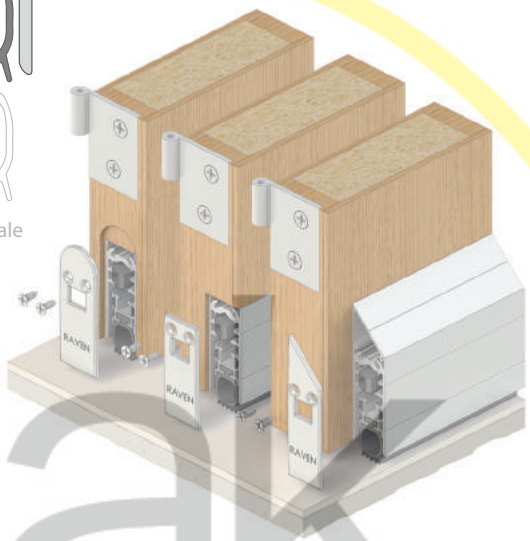
Energy NCC Pt. 3.12.3.3 & J3.4.

Durability Tested to over 1,000,000 operating cycles without failure.

Patented.



Not to scale



R37913

CF 5710

RP126Si

An adjustable, automatic door bottom seal that is spring loaded to lift clear of the floor when the door is opened. Acoustically designed, featuring extruded silicon gaskets for medium temperature smoke applications. RP126Si is operated automatically by pressure on the door jamb or stop by its adjustable strike. It is self levelling.

Location: Face mounted or semi-morticed into the bottom of single and double solid core butt hinged doors. Minimum door thickness of 35mm recommended for semi-morticed installations with plain meeting stiles. Minimum door thickness of 40mm recommended for semi-morticed installation with rebated meeting stiles. Can also be face mounted to the bottom of metal doors.

Min/Max Gap: 3mm to 14mm.

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

Fixing: Screw fix. Colour matched escutcheon plates and zinc plated, cross recess head S.T. screws supplied.

Seal: RP3126Si. Black silicon rubber (SE).

Sizes: 1500mm, 1220mm, 1070mm, 920mm, 820mm, 600mm to 305mm (min). Seals cut back to exact size.

Approvals

ANSI/BHMA A156.22

Acoustic AUS/NZ: NCC Spec. F5.5.
UK/EU: Approved Document E. Rated to BS EN ISO 717-1.

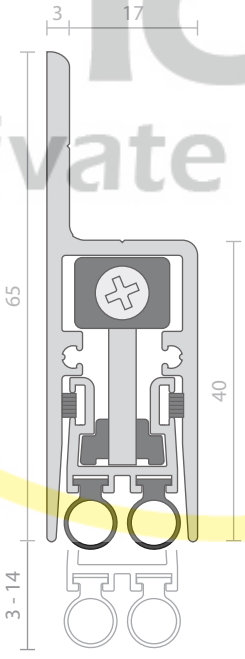
Fire AUS/NZ: NCC Spec. C3.4. AS1530.4 & AS/NZS 1905.1. NZ BC Compliance Doc. C/AS1 6.19.2 & App. C6.1.1.
UK/EU: Approved Document B. BS EN 1634-1. FRL & FRR-/240/30. Gasket flammability index 1 when tested to AS1530.2.

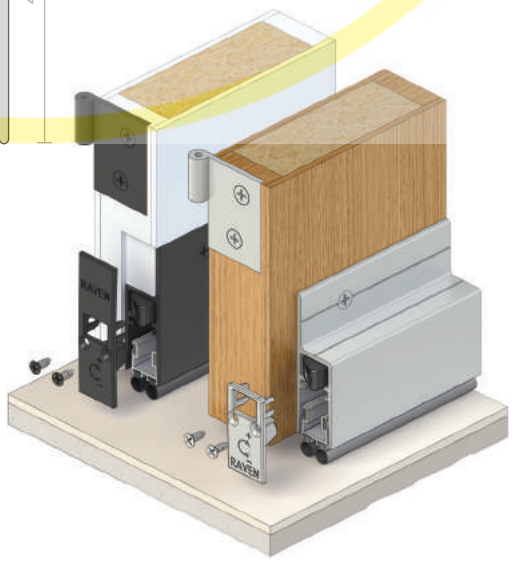
Smoke NCC Spec. C3.4. AS1530.7 & BS EN 1634-3. Meets smoke leakage rates specified in AS6905 & EN 13501-2 "Sa", "Sm".

Energy NCC Pt. 3.12.3.3 & J3.4.

Durability Tested to over 1,000,000 operating cycles without failure.

Patented, Registered Design.





R37913

CF 5710

RP127Si

An adjustable, automatic door bottom seal that is spring loaded to lift clear of the floor when the door is opened. Acoustically designed, featuring extruded silicon gaskets for medium temperature smoke applications. It is operated automatically by pressure on the door jamb by its adjustable strike. It is self levelling.

Location: Fully morticed into the bottom of single and double solid core butt hinged doors (minimum door thickness of 40mm). For double doors, plain meeting stiles are required. Can also be fitted into the bottom rail of a metal door by the fabricator.

Min/Max Gap: 3mm to 14mm.

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

Fixing: Screw fix. Colour matched escutcheon plates and zinc plated, cross recess head S.T. screws supplied.

Seal: RP3126Si. Black silicon rubber (SE).

Sizes: 1500mm, 1220mm, 1070mm, 920mm, 820mm, 600mm to 305mm (min). Seals cut back to exact size.

Approvals

ANSI/BHMA A156.22

Acoustic AUS/NZ: NCC Spec. F5.5.
UK/EU: Approved Document E. Rated to BS EN ISO 717-1.

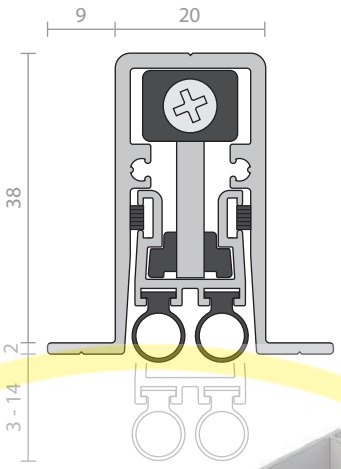
Fire AUS/NZ: NCC Spec. C3.4. AS1530.4 & AS/NZS 1905.1. NZ BC Compliance Doc. C/AS1 6.19.2 & App. C6.1.1.
UK/EU: Approved Document B. BS EN 1634-1.
FRL & FRR-/240/30.
Gasket flammability index 1 when tested to AS1530.2.

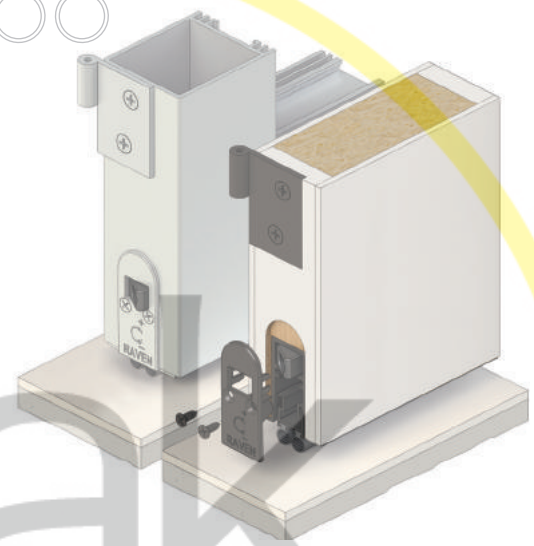
Smoke NCC Spec. C3.4. AS1530.7 & BS EN 1634-3. Meets smoke leakage rates specified in AS6905 & EN 13501-2 "Sa", "Sm".

Energy NCC Pt. 3.12.3.3 & J3.4.

Durability Tested to over 1,000,000 operating cycles without failure.

Patented, Registered Design.





CLASSIFIED UL R37913

certifire CF 5710

RP128Si

An adjustable, automatic door bottom seal that is spring loaded to lift clear of the floor when the door is opened. Acoustically designed, featuring extruded silicon gaskets for medium temperature smoke applications, the RP128Si is operated automatically by pressure on the door stop by its adjustable strike. Utilising an aesthetic extruded aluminium cover for concealed fixing. It is self levelling.

Location: Face mounted to the bottom of single and double solid core butt hinged doors. RP128Si can also be face mounted to the bottom of metal doors.

Min/Max Gap: 3mm to 14mm.

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

Fixing: Concealed screw fix. Zinc plated, cross recess head S.T. screws supplied. Colour matched escutcheon plates and face mount aluminium angle included.

Seal: RP3126Si. Black silicon rubber (SE).

Sizes: 1500mm, 1220mm, 1070mm, 920mm, 820mm, 600mm to 305mm (min). Seals cut back to exact size.

Approvals

ANSI/BHMA A156.22

Acoustic AUS/NZ: NCC Spec. F5.5.
UK/EU: Approved Document E. Rated to BS EN ISO 717-1.

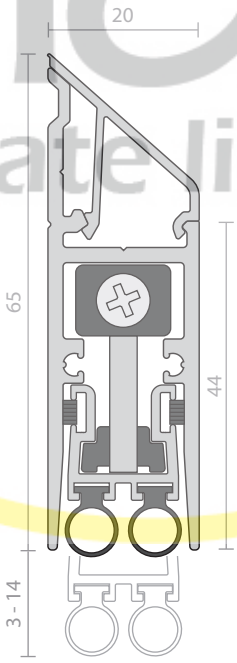
Fire AUS/NZ: NCC Spec. C3.4. AS1530.4 & AS/NZS 1905.1. NZ BC Compliance Doc. C/AS1 6.19.2 & App. C6.1.1.
UK/EU: Approved Document B. BS EN 1634-1.
FRL & FRR-/240/30.
Gasket flammability index 1 when tested to AS1530.2.

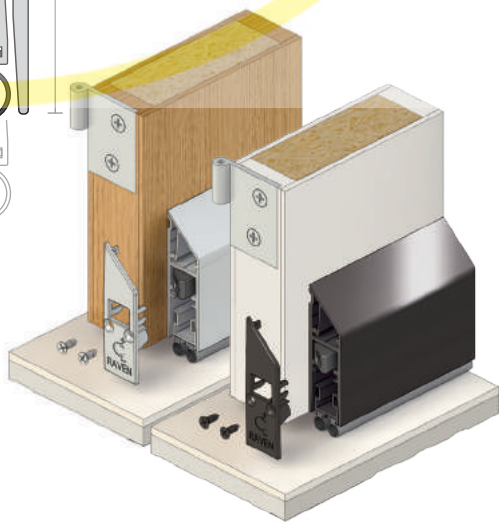
Smoke NCC Spec. C3.4. AS1530.7 & BS EN 1634-3. Meets smoke leakage rates specified in AS6905 & EN 13501-2 "Sa", "Sm".

Energy NCC Pt. 3.12.3.3 & J3.4.

Durability Tested to over 1,000,000 operating cycles without failure.

Patented, Registered Design.





CLASSIFIED UL R37913

certifire CF 5710

RP139Si

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. RP139Si 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 of single and double butt hinged timber and metal doors.

Min/Max Gap: 3mm to 13mm.

Finish: Satin clear (silver) 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.

Approvals

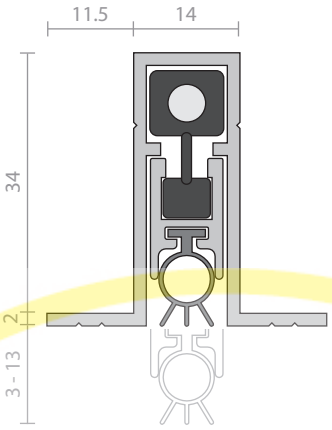
Fire UK/EU: Approved Document B. BS EN 1634-1. FD240.
Gasket flammability index 1 when tested to AS1530.2.

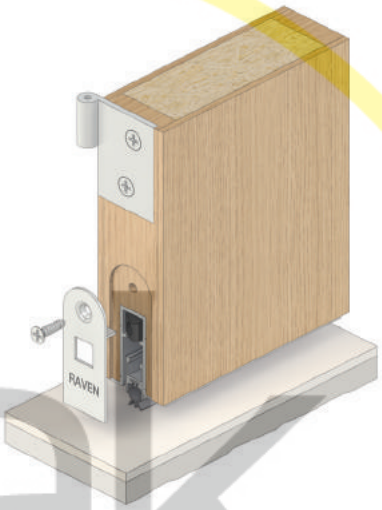
Smoke NCC Spec. C3.4. AS1530.7 & BS EN 1634-3. Meets smoke leakage rates specified in AS6905 & EN 13501-2 "Sa", "Sm".

Energy NCC Pt. 3.12.3.3 & J3.4.

Durability Tested to over 1,000,000 operating cycles without failure.

Patented.





CLASSIFIED UL R37913

certifire CF 5710

RP144Si

A concealed, automatic door bottom seal to suit medium temperature smoke and energy door seal applications.

RP144Si features twin silicon bulb gaskets and is spring loaded to lift clear of the floor as soon as the door leaf is opened by a few millimetres.

Mounted into the bottom hollow rail of metal doors, the seal is operated automatically by pressure against the door jamb on its adjustable strike block.

Location: Concealed in the bottom of single and double aluminium or metal clad butt hinged doors.

Min/Max Gap: 3mm to 12mm

Finish: Satin clear (silver) anodised aluminium (15µm).

Fixing: Concealed screw fix. Colour matched escutcheon plates and zinc plated, cross recess head S.T. screws supplied.

Seal: RP3126Si. Black silicon rubber (SE).

Sizes: 1350mm, 1220mm, 920mm to 600mm (min). Seals cut back to exact size.

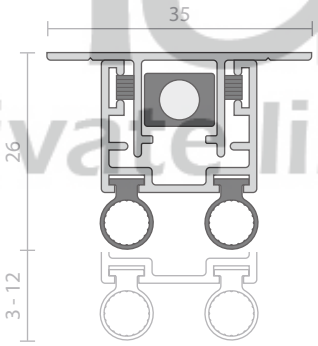
Approvals

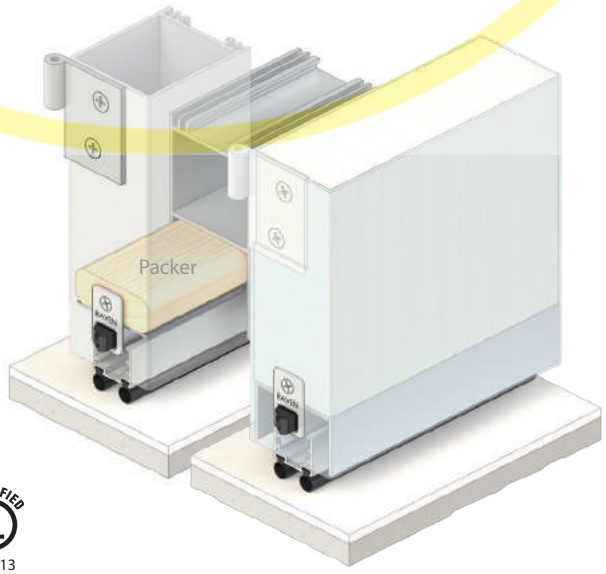
Fire Gasket flammability index 1 when tested to AS1530.2.

Smoke NCC Spec. C3.4 for smoke doors.

Energy NCC Pt. 3.12.3.3 & J3.4.

Durability Tested to over 1,000,000 operating cycles without failure.





CLASSIFIED UL R37913

D'Arenberg Cube, South Australia

Set among the vines in the heart of McLaren Vale's wine region sits the d'Arenberg Cube. The glass-encased multi-purpose building is arguably one of the most iconic tourism destinations in Australia, receiving an award for best architectural design in the 2018 Australian Good Design Awards. The d'Arenberg Cube has succeeded to capture attention and increase visitors to the area.

Inside the five-storey building is a new cellar door, bars, private function rooms, a restaurant and a museum on the ground floor. Each level of the d'Arenberg Cube has a spectacular view of the surrounding wine region.

To meet the building's various sealing requirements and to compliment the prestigious nature of the project, Raven was specified due to its trusted reputation and its high quality products. Raven provides the industry's most extensive range of NCC compliant; NATA tested and certified Door & Window Sealing Systems. Raven is also independently certified to international quality management standard ISO9001 ensuring you receive the best products, at the best price, backed by the best service every time.

RP4

A storm proof door bottom seal and threshold plate that is ideal where maximum weather protection is required. The RP4 multi-blade seal defies rain infiltration.

Can be fitted to the square cut bottom of a door without removing the door, provided there is an existing gap of 25mm. It is quick and easy to fit to both door and sill.

The sealing section is slotted for adjustment.

Also available as an intumescent fire and hot smoke seal. Refer to RP4FZ.

Location: Bottom of single and double butt hinged doors and sill. Minimum door thickness of 35mm.

Min/Max Gap: 23mm to 25mm.

Finish: Satin clear (silver), bronze, bright gold or black anodised aluminium (15µm) with anodised threshold plate (25µm).

Fixing: Concealed screw fix. Zinc plated, cross recess head S.T. screws and cover strip supplied. Fixing holes are pre-slotted. Threshold plate fixing holes are pre-punched and countersunk.

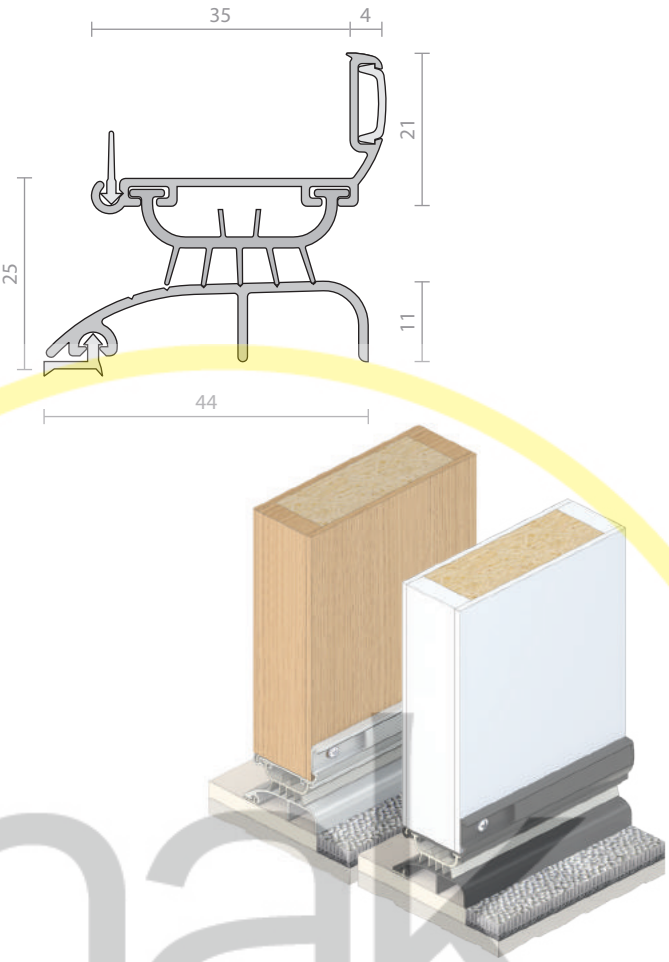
Seal: RP404, RP404a and RP404b. Grey PVC.

Sizes: Available in stock lengths.

Approvals

Access & Mobility NZ: NZ BC Compliance Doc D1/AS1 1.3.2.
UK/EU: Approved Document M.

Energy NCC Pt. 3.12.3.3 & J3.4.



RP4FZ

A storm proof door bottom seal and threshold plate that is ideal where maximum weather protection is required. The RP4FZ multi-blade seal defies rain infiltration. Can be fitted to the square cut bottom of a door without removing the door, provided there is an existing gap of 25mm.

With an intumescent fire seal providing protection to the bottom of the door in bushfire prone areas up to BAL FZ in accordance with AS3959.

Location: Bottom of single and double butt hinged doors and sill. Minimum door thickness of 35mm.

Min/Max Gap: 23mm to 25mm.

Finish: Satin clear (silver) or bronze anodised aluminium (15µm) with anodised threshold plate (25µm).

Fixing: Concealed screw fix. Zinc plated, cross recess head S.T. screws and cover strip supplied. Fixing holes are pre-slotted. Threshold plate fixing holes are pre-punched and countersunk.

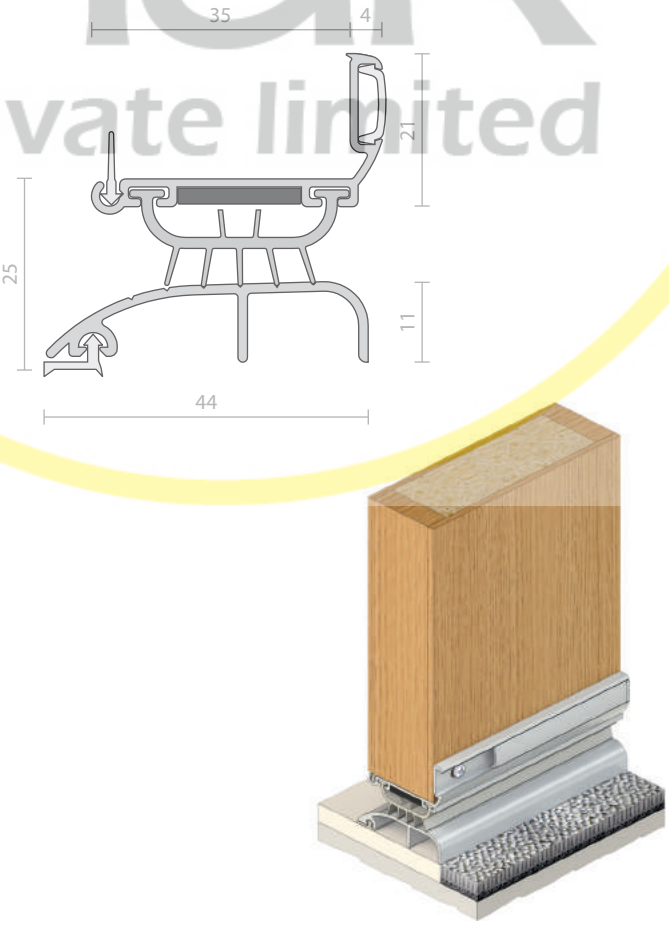
Seal: Intumescent infill, grey flexible PVC (SE) cover strip and RP304Si finned silicon rubber gasket.

Sizes: Available in stock lengths.

Approvals

Access & Mobility NZ: NZ BC Compliance Doc D1/ASI1.3.2.
UK/EU: Approved Document M.

Energy NCC Pt. 3.12.3.3 & J3.4.



RP4T

A weather seal, RP4T easily fits to the bottom of a door. It can be used in combination with threshold plates where even greater protection is required.

RP4T is particularly suitable for roll-up doors. Its fixings are concealed and its multi-blade seal defies rain infiltration.

Also available as an intumescent fire and hot smoke seal. Refer to RP114 for this feature.

Location: Roll-up doors. Single and double butt hinged doors or bulkhead applications. Minimum door thickness of 35mm.

Min/Max Gap: User determined.

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

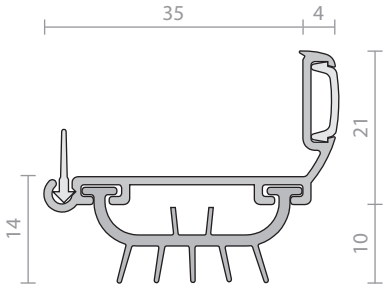
Fixing: Concealed screw fix. Zinc plated, cross recess head S.T. screws and cover strip supplied. Fixing holes are pre-slotted.

Seal: RP404 and RP404b. Grey PVC.

Sizes: Available in stock lengths.

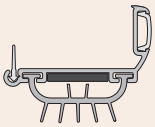
Approvals

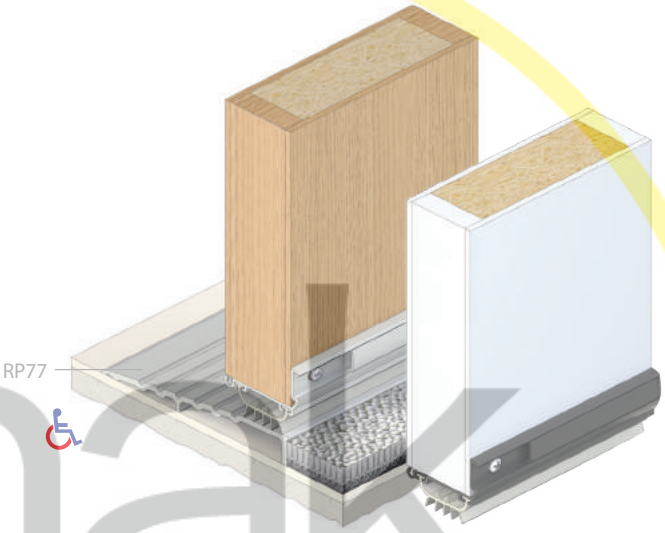
Energy NCC Pt. 3.12.3.3 & J3.4.



RP114

p.112





RP5

A flexible EPDM weather strip sweep seal that fits to the bottom of doors. It is ideal for screen doors and sash windows to prevent insects from entering up the face of the glass. It is quick and easy to install to the door bottom, being fitted without removing the door. It is also ideal for garage tilt-up doors.

Can be used in conjunction with Raven RP13 and RP82 threshold plates.

Location: Bottom of doors, sash windows or around stiles of tilt up doors.

Min/Max Gap: Up to 15mm (user determined).

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: RP303. Black EPDM.

Sizes: Available in stock lengths.

Approvals

Fire Gasket flammability index < 5 when tested to AS1530.2.

Energy NCC Pt. 3.12.3.3 & J3.4.

Door Bottom Sweep Seals

RP17b

Co-extrusion (Adhesive backed).

A co-extruded PVC sweep seal that fits to the stiles or bottom of doors. These extremely flexible seals can be quick and easily installed without removing the door. Ideal for sliding and security screen doors.

Can be used in conjunction with Raven RP13 and RP82 threshold plates.

Location: Bottom of or around sliding or outward opening butt hinged doors.

Min/Max Gap: Up to 19mm (user determined).

Fixing: Self adhesive or can be screw fixed.

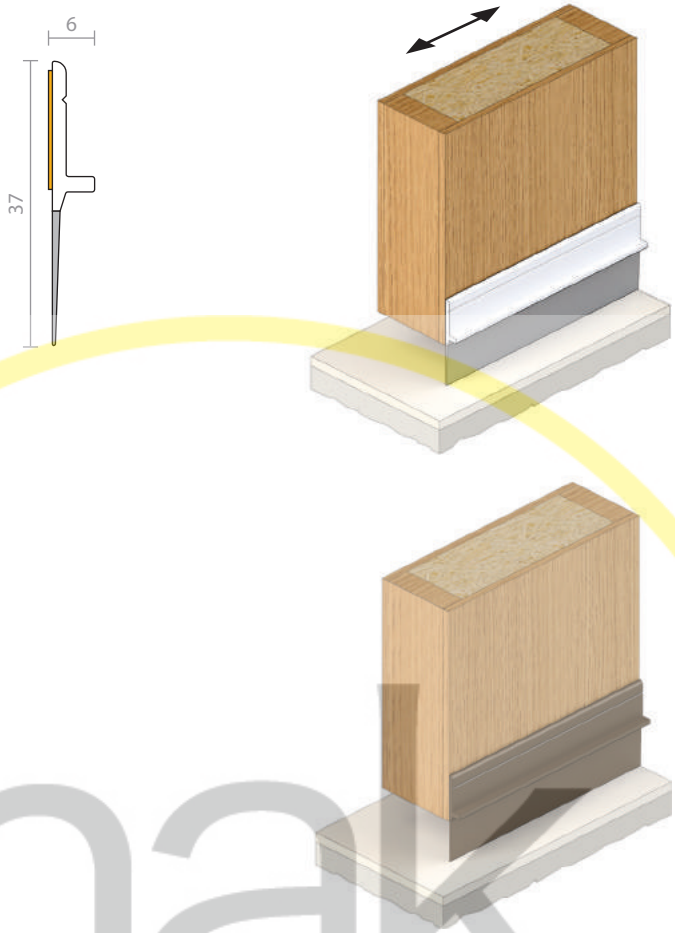
Note: Contact surface must be clean, smooth and if painted, well cured. Self adhesive seals will not adhere to oiled or alkyd finishes or to easy clean wash and wear paint surfaces.

Seal: White and grey or brown rigid and flexible PVC.

Sizes: Available in stock lengths.

Approvals

Energy NCC Pt. 3.12.3.3 & J3.4.



RP26

A heavy duty sweep seal for door bottoms of outward opening doors. Slotted fixing holes allow for adjustment all concealed behind a push in cover strip.

The RP26 is ideal for use in conjunction with Raven threshold plates.

Location: Bottom of single and double, outward opening, butt hinged doors, tilt up doors or can be used as an astragal seal.

Min/Max Gap: 5mm to 20mm (user determined).

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

Fixing: Concealed screw fix. Zinc plated, cross recess head S.T. screws and cover strip supplied. Fixing holes are pre-slotted.

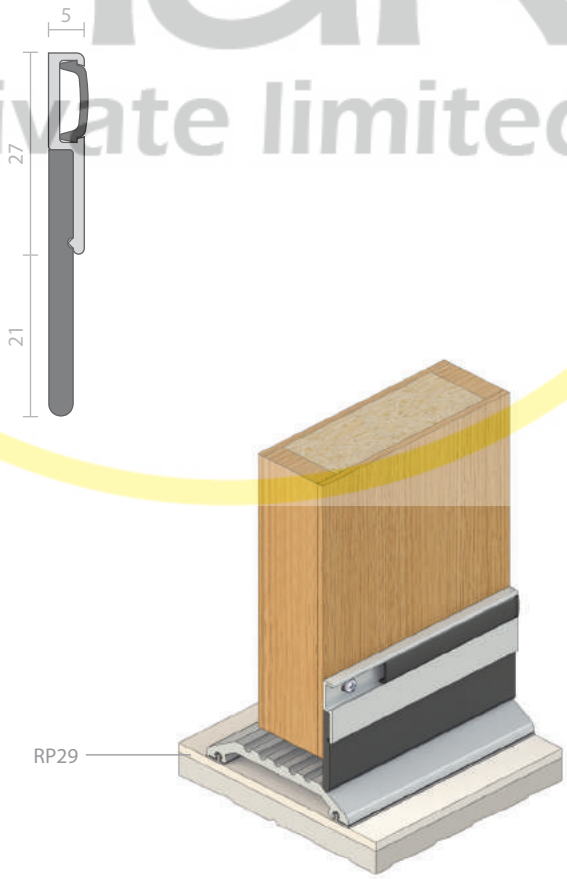
Seal: RP326. Black EPDM.

Sizes: Available in stock lengths.

Approvals

Fire AUS/NZ: NCC Spec. C3.4. AS1530.4 & AS/NZS 1905.1.
UK/EU: Approved Document B. BS 476 Pt. 20 & 22 (similar to BS EN 1634-1).
FRL & FRR-/120/30 and FD120.

Energy NCC Pt. 3.12.3.3 & J3.4.



RP30, RP31

The RP30 and RP31 are heavy duty sweep/compression seals. The RP30 is fitted into a concealed, machined groove that should be deep enough to allow packing for adjustment. Forms a weather seal when used with Raven RP13 or RP82 threshold plates.

The RP31 has greater compression than the RP30 and the design does not allow adjustment so it should not be installed in situations where adjustability is required. Forms a weather seal when used with Raven RP82 or RP115 threshold plates.

Location: Bottom of doors, meeting stiles or user determined bumper strip.

Min/Max Gap:
RP30 3mm to 8mm (user determined).
RP31 12mm to 17mm (user determined).

Finish:
RP30 Satin clear (silver), bronze anodised aluminium (15µm) or paint at extra cost.
RP31 Satin clear (silver) anodised aluminium (15µm) or paint at extra cost.

Fixing: Concealed screw fix. Zinc plated, cross recess head S.T. screws supplied.

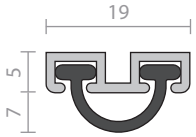
Seal:
RP30 RP330. Black EPDM.
RP31 RP331. Black EPDM.

Sizes: Available in stock lengths.

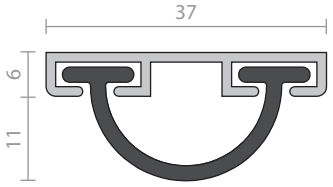
Approvals

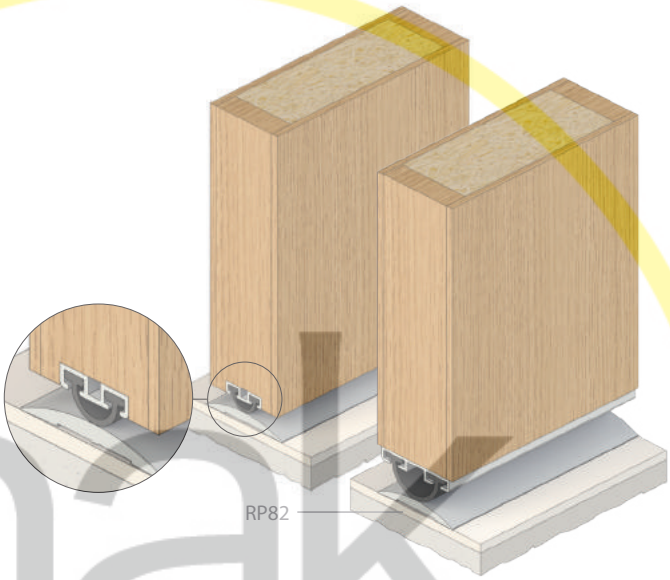
Energy NCC Pt. 3.12.3.3 & J3.4.

RP30



RP31





RP51Si

A heavy duty silicon rubber sweep seal for the bottom of outward opening doors. RP51Si has slotted fixing holes for adjustment with a push-in cover strip for concealed fixing.

The RP51Si is ideal for use in conjunction with Raven threshold plates.

Location: Bottom of single and double, outward opening, butt hinged doors, tilt up doors or can be used as an astragal seal.

Min/Max Gap: 5mm to 20mm (user determined).

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

Fixing: Concealed screw fix. Zinc plated, cross recess head S.T. screws and cover strip supplied. Fixing holes are pre-slotted.

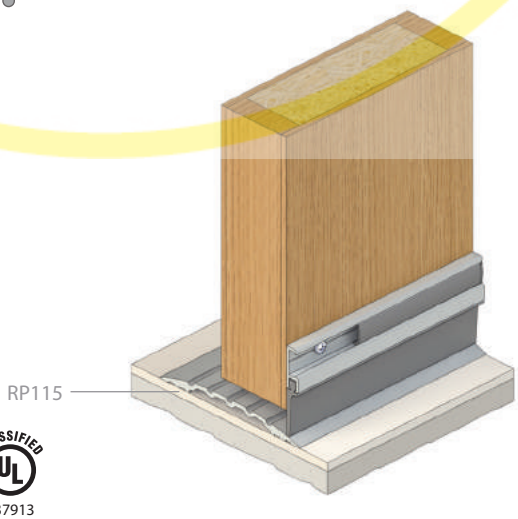
Seal: RP351Si. Grey silicon rubber (SE).

Sizes: Available in stock lengths.

Approvals

Fire & Smoke AUS/NZ: NCC Spec. C3.4. AS1530.4 & AS/NZS 1905.1. NZ BC Compliance Doc. C/AS1 6.19.2 & App. C6.1.1.
UK/EU: Approved Document B. BS 476 Pt. 20 & 22 (similar to BS EN 1634-1).
FRL & FRR-/120/30 and FD120.
Gasket flammability index 1 when tested to AS1530.2.

Energy NCC Pt. 3.12.3.3 & J3.4.



R37913
CF 5710

RP54

A heavy duty storm proof weather seal ideal for residential and commercial applications where maximum weather protection is required. The RP54 (Daniels Patent) is a door bottom seal and threshold plate combination suitable for inward opening butt hinged doors.

Can be used in conjunction with Raven door frame or perimeter seals.

Location: Bottom of single and double inward opening butt hinged timber doors. Minimum door thickness of 35mm.

Min/Max Gap: 22mm to 25mm.

Finish: Satin clear (silver) anodised aluminium (25µm).

Fixing: Screw and nail fix. Zinc plated, cross recess head S.T. screws and zinc plated nails supplied.

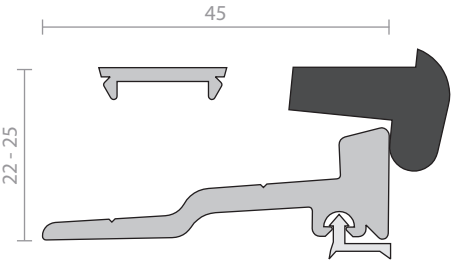
Seal: RP354. Black EPDM. RP404a. Grey flexible PVC.

Sizes: Available in stock lengths.

Approvals

Access & Mobility NZ: NZ BC Compliance Doc. D1/AS1 1.3.2.

Energy NCC Pt. 3.12.3.3 & J3.4.



RP81

A heavy duty EPDM sweep seal for door bottoms of outward opening doors with large gaps up to 120mm. Ideal for industrial sliding doors and gates. This seal has slotted holes for adjustment with a push-in cover strip for concealment of fasteners.

The RP81 is ideal for use in conjunction with Raven threshold plates RP82 and RP29.

Location: Bottom of single and double outward opening doors or industrial sliding doors and gates.

Min/Max Gap: Up to 120mm (seal can be slit to suit on site).

Finish: Satin clear (silver) anodised aluminium (15µm).

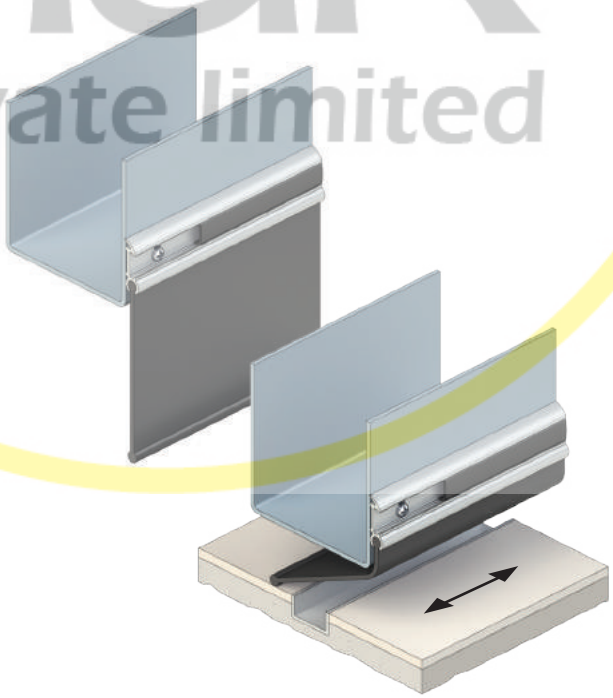
Fixing: Screw fix. Zinc plated, cross recess head S.T. screws supplied.

Seal: RP381. Black EPDM.

Sizes: Available in stock lengths.

Approvals

Energy NCC Pt. 3.12.3.3 & J3.4.



RP86

A weather proof door bottom seal, that is used by OEM joiners in situations where maximum weather protection is required. The multi-blade seal defies rain infiltration.

RP86 is fitted to the square cut bottom of a door, provided there is a gap of 19-20mm prior to installation (flat sill). It is quick and easy to fit to both door and sill.

RP86 can be fitted by builders, but is primarily designed for volume joinery fabrication.

Location: Bottom of single and double butt hinged timber doors.

Min/Max Gap: Flat sills: 19mm to 20mm. Rebated sills: 14mm to 15mm.

Finish: Satin clear (silver) or bronze anodised threshold plate (25µm).

Fixing: Screw fix. Zinc plated, cross recess head S.T. screws supplied. Threshold plate fixing holes are pre-punched and countersunk.

Seal: RP486. Black and grey rigid and flexible UV stabilised PVC.

Sizes: 1000mm, 820mm. Threshold plate: 1660mm, 1000mm, 826mm.

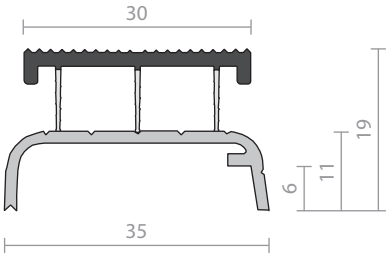
Approvals

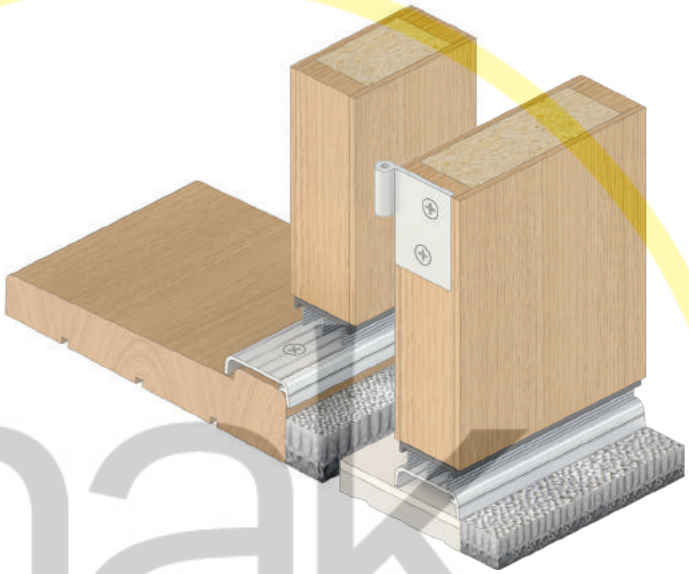
Access & Mobility NZ: NZ BC Compliance Doc. D1/AS1 1.3.2.
UK/EU: Approved Document M.

Energy NCC Pt. 3.12.3.3 & J3.4.

Durability Tested to over 1,000,000 operating cycles without failure.

Registered Design.





RP89

A rigid and flexible co-polymer weather and energy seal. RP89 suits leading proprietary brand, hollow channel aluminium door suites. Concealed in the bottom of aluminium butt hinged doors or the bottom and head of pivot doors, RP89's unique design accommodates OEM and retrofit applications.

When used in conjunction with a Raven threshold plate an excellent weather and energy seal is achieved.

Location: Bottom or top of 40-45mm hollow channel aluminium doors. Suits butt hinged and pivot hinged systems. Sliding doors (user determined).

Min/Max Gap: 6mm to 9mm.

Note: A Raven threshold plate is recommended to clear floor surface.

Fixing: Snap fit design with end support lugs and screws supplied.

Seal: Black rigid and grey flexible UV stabilised co-polymer.

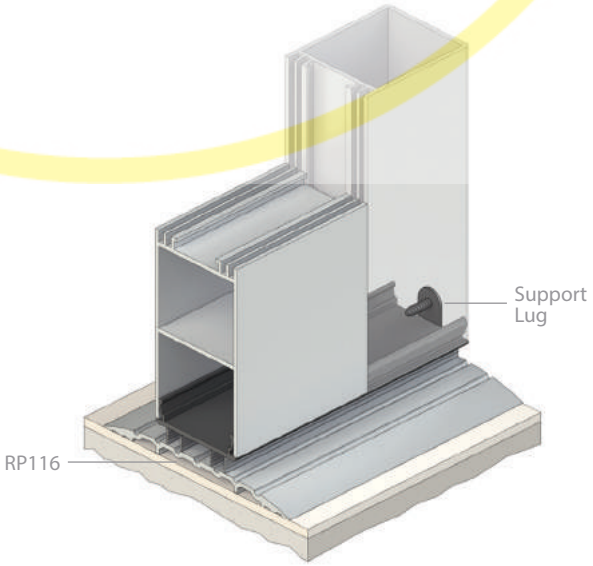
Sizes: 1000mm.

Approvals

Energy NCC Pt. 3.12.3.3 & J3.4.

Durability Tested to over 500,000 operating cycles without failure.

Registered Design.



Door Bottom Sweep Seals

RP123

RP123 is a co-polymer, door bottom weather seal with a concealed fix aluminium threshold plate. RP123 easily fits to the bottom of a door where maximum weather protection is required.

Quick and easy to install to both door and sill. RP123 is fitted to the square cut bottom of a door provided there is a gap of 19 - 20mm for a flat sill or 12 - 13mm for a rebated sill prior to installation.

Location: Bottom of single and double butt hinged doors with rebated or flat sills. Minimum door thickness of 35mm.

Min/Max Gap: Flat sill: 19mm to 20mm. Rebated sill: 12mm to 13mm.

Finish: Satin clear (silver) or bronze anodised aluminium (25µm) threshold plate.

Fixing: Concealed screw fix. Zinc plated, cross recess head S.T. screws and cover strip supplied. Fixing holes are pre-punched. Threshold plate can be screwed or fastened with builders adhesive for a concealed fix.

Seal: Light grey rigid PVC body with dark grey flexible PVC seal or, brown rigid PVC body with black flexible PVC seal.

Sizes: 1750mm, 926mm, 826mm.

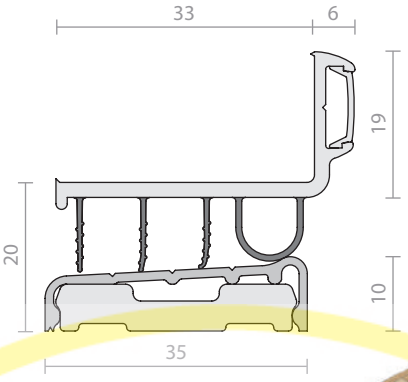
Approvals

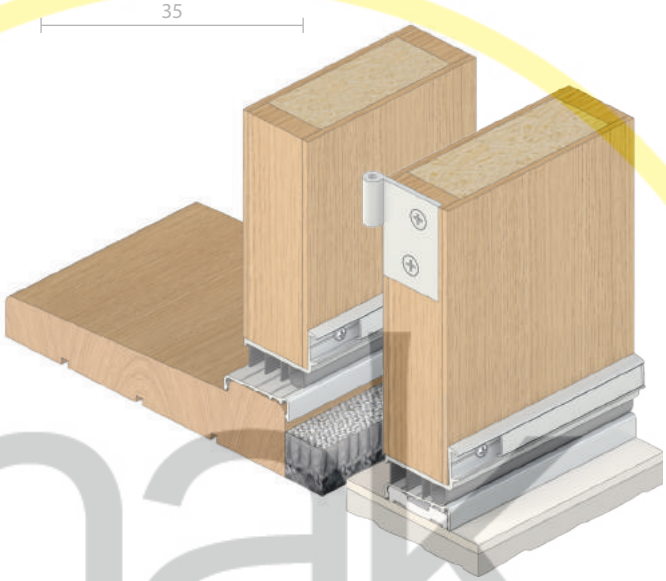
Access & Mobility NZ: NZ BC Compliance Doc. D1/AS1 1.3.2.

Energy NCC Pt. 3.12.3.3 & J3.4.

Durability Tested to over 500,000 operating cycles without failure.

Patented, Registered Design.





RP129F

A heavy duty medium temperature smoke door bottom seal. The seal is achieved by a pair of nylon brush strips with a medium temperature smoke barrier.

The seal can be checked out or drilled to accommodate the pivot, thereby providing a continuous seal.

Can be used in conjunction with RP130Si, other Raven perimeter seals and threshold plates.

Location: Bottom of double butt hinged or centre pivot double acting doors. Suitable for hard, flat surfaces.

Min/Max Gap: 15mm to 18mm.

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

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

Seal: RP52F. Black fine and dense nylon filaments, UV stabilised medium temperature smoke barrier fin and galvanised steel spine.

Sizes: Available in stock lengths.

Approvals

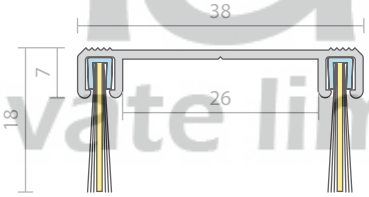
Fire Brush Strip flammability index 1 when tested to AS1530.2.

Smoke NCC Spec. C3.4. NZ BC Compliance Doc. C/AS1 6.19.2(b). AS1530.7 & BS EN 1634-3 (similar to BS 476 section 31.1). Meets smoke leakage rates specified in AS6905 & EN 13501-2 "Sa", "Sm".

Energy NCC Pt. 3.12.3.3 & J3.4.

Durability Tested to over 1,000,000 operating cycles without failure.

Patented, Registered Design.



Door Bottom Sweep Seals

RP129Si

A heavy duty medium temperature smoke and weather door bottom seal. The RP129Si can be checked out or drilled to accommodate pivot hardware whilst still providing a continuous seal.

Use in conjunction with RP130Si and a Raven threshold plate (essential).

Location: Bottom of double butt hinged or centre pivot double acting doors.

Min/Max Gap: 14mm to 18mm.

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

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

Seal: RP3129Si. Light grey silicon rubber (SE).

Sizes: Available in stock lengths.

Approvals

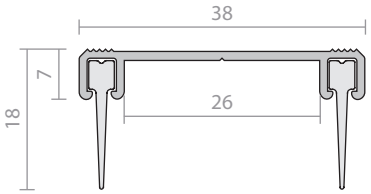
Fire Gasket flammability index 1 when tested to AS1530.2.

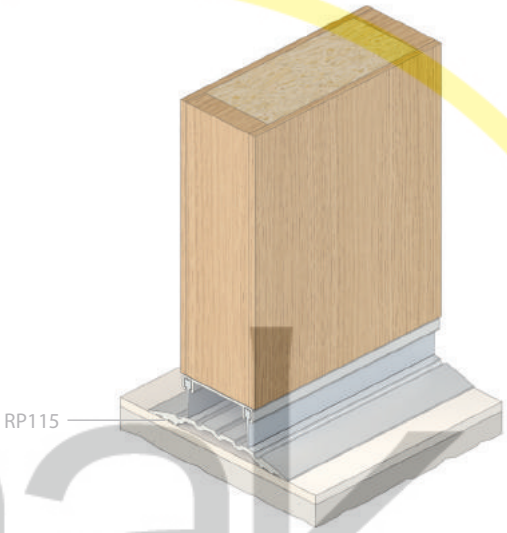
Smoke NCC Spec. C3.4. NZ BC Compliance Doc. C/AS1 6.19.2(b). AS1530.7 & BS EN 1634-3 (similar to BS 476 section 31.1). Meets smoke leakage rates specified in AS6905 & EN 13501-2 "Sa", "Sm".

Energy NCC Pt. 3.12.3.3 & J3.4.

Durability Tested to over 1,000,000 operating cycles without failure.

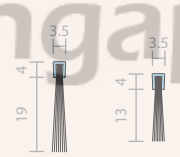
Registered Design.



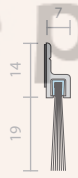


Brush Strip Seals

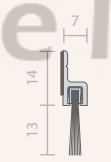
RP2, RP2b (brush only) p.117



RP2a p.118

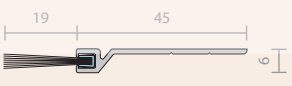


RP2b p.118

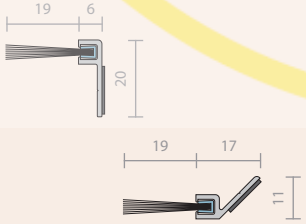


RP15 p.119

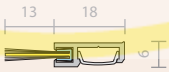
RP41 p.119



RP49, RP50 p.120

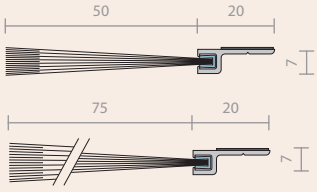


RP51F p.120

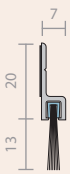


RP52F p.121

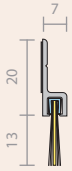
RP57, RP58 p.121



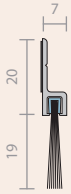
RP74 p.122



RP74F p.122



RP75 p.123



Threshold Plate Seals

Threshold plate seals incorporate a seal bulb in the threshold plate itself and as such the addition of a door bottom seal may not be required. Threshold plates offer a simple and effective sealing solution for the door bottom of outward opening doors.

Threshold plate seals are ideal for use with door frame perimeter seals and astragal seals which create a continuous seal or Bulk head seal around the doorway which offers maximum sealing protection.

Threshold plate seals can also accommodate a panic type exit device or panic bolt (by others) while giving added security at the bottom of the door.

RP97Si

A threshold plate seal best suited for outward opening butt hinged doors. When used in conjunction with RP93Si and RP16Si an excellent smoke and acoustic system is achieved. For acoustic applications the void under the RP97Si should be filled with sound foam or other suitable material (by others). Conforms to NCC Pt. D2.15 Thresholds (a), (b), (c).

The RP67 drip strip should be considered for above the doorway if there is no eave.

Ideal for use in conjunction with the RP93Si perimeter seal and Raven astragals.

Location: Door sills abutting outward opening butt hinged doors. Not recommended for pedestrian entry doors.

Min/Max Gap: Compression 0mm to 2mm.

Finish: Satin clear (silver) anodised aluminium (25µm).

Fixing: Screw fix or builders adhesive for concealed fixing (user determined). Zinc plated, cross recess head CSK S.T. screws supplied.

Seal: RP393Si. Black silicon rubber (SE).

Sizes: Available in stock lengths. Specify longer length then doorway to allow for neat installation around door frame.

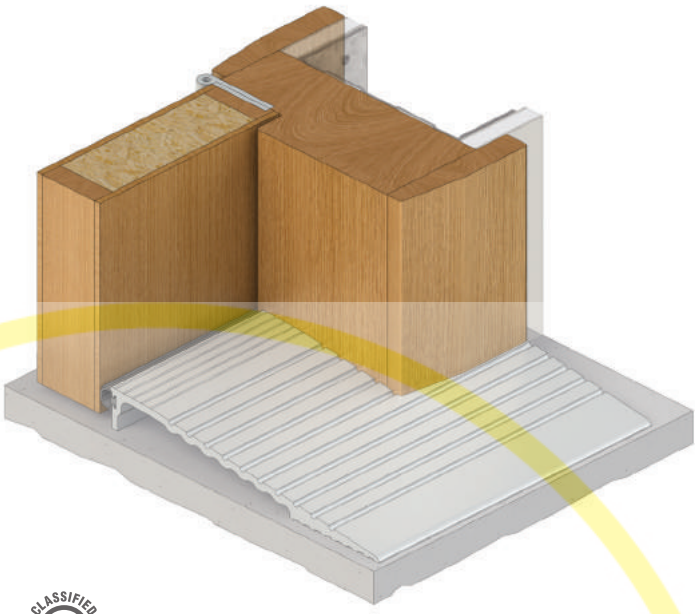
Approvals

Access & Mobility AUS/NZ: NCC Pt. D2.15 thresholds (a), (b), (c). NZ BC Compliance Doc. D1/AS1 1.3.2.

Acoustic AUS/NZ: NCC Spec. F5.5.
UK/EU: Approved Document E. Rated to BS EN ISO 717-1.

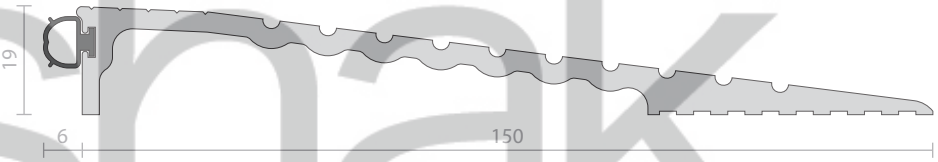
Fire & Smoke AUS/NZ: NCC Spec. C3.4. NZ BC Compliance Doc. C/AS1 6.19.2 & App. C6.1.1.
UK/EU: Approved Document B. BS EN 1634-1.
FRL & FRR-/240/30 and FD30.
Gasket flammability index 1 when tested to AS1530.2.
BAL ≤FZ when used with a BAL rated door bottom seal in accordance with AS3959.

Energy NCC Pt. 3.12.3.3 & J3.4.



CLASSIFIED UL R37913

certifire CF 5710



Not to scale

RP109Si

The RP109Si is a weather proof threshold plate seal suited to outward opening butt hinged doors. It is ideal for use with a panic type exit device (by others).

For acoustic applications the void under the threshold should be filled with sound foam or other suitable material (by others).

The RP67 drip strip should be considered for above the doorway if there is no eave.

Ideal for use in conjunction with the RP93Si perimeter seal and Raven astragals.

Location: Door sill of outward opening doors (butt hinges recommended).

Min/Max Gap: Compression 0mm to 2mm.

Finish: Satin clear (silver) anodised aluminium (25µm).

Fixing: Screw fix or builders adhesive for concealed fixing (user determined). Zinc plated, cross recess head CSK S.T. screws supplied.

Seal: RP393Si. Black silicon rubber (SE).

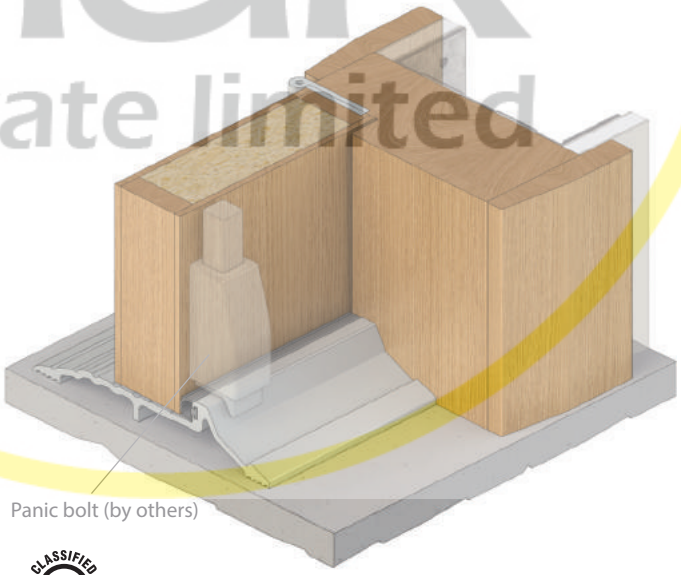
Sizes: Available in stock lengths.

Approvals

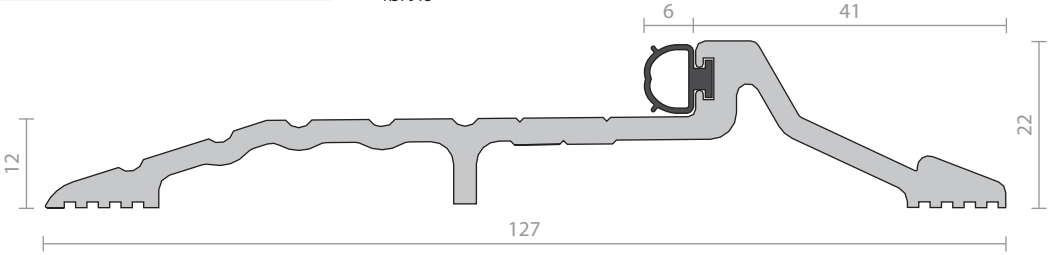
Acoustic AUS/NZ: NCC Spec. F5.5.
UK/EU: Approved Document E. Rated to BS EN ISO 717-1.

Fire & Smoke AUS/NZ: NCC Spec. C3.4. NZ BC Compliance Doc. C/AS1 6.19.2 & App. C6.1.1.
UK/EU: BS EN 1634-1.
FRL & FRR-/240/30 and FD30.
Gasket flammability index 1 when tested to AS1530.2.
BAL ≤FZ when used with a BAL rated door bottom seal in accordance with AS 3959.

Energy NCC Pt. 3.12.3.3 & J3.4.



CLASSIFIED UL R37913



RP110Si

The RP110Si is a weather proof threshold plate seal suited to outward opening butt hinged doors. It is ideal for use with a panic type exit device (by others).

For acoustic applications the void under the threshold should be filled with sound foam or other suitable material (by others).

The RP67 drip strip should be considered for above the doorway if there is no eave.

Ideal for use in conjunction with the Raven RP93Si perimeter seal and Raven astragals.

Location: Door sill of outward opening doors. (butt hinges recommended).

Min/Max Gap: Compression 0mm to 2mm.

Finish: Satin clear (silver) anodised aluminium (25µm).

Fixing: Screw fix or builders adhesive for concealed fixing (user determined). Zinc plated, cross recess head CSK S.T. screws supplied.

Seal: RP393Si. Black silicon rubber (SE).

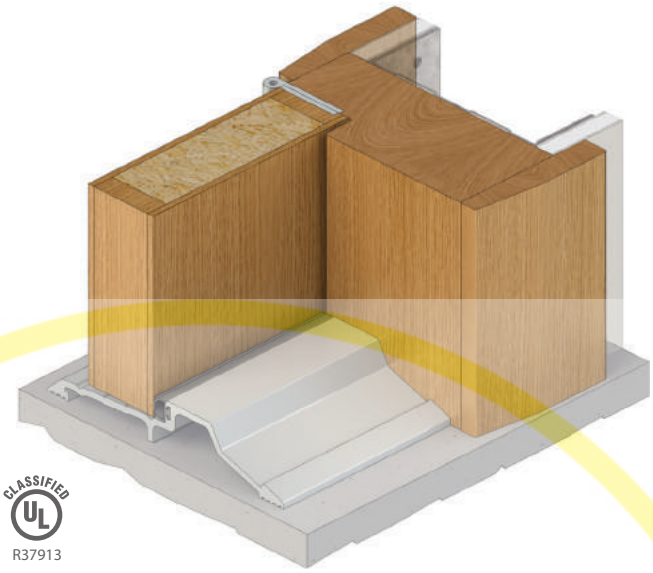
Sizes: Available in stock lengths.

Approvals

Acoustic AUS/NZ: NCC Spec. F5.5.
UK/EU: Approved Document E. Rated to BS EN ISO 717-1.

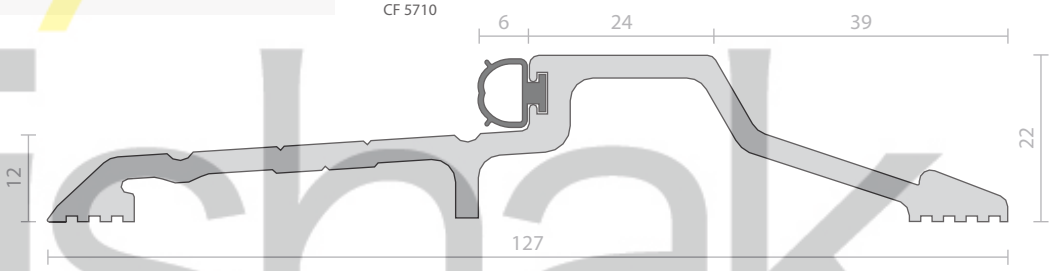
Fire & Smoke AUS/NZ: NCC Spec. C3.4. NZ BC Compliance Doc. C/AS1 6.19.2 & App. C6.1.1.
UK/EU: BS EN 1634-1.
FRL & FRR-/240/30 and FD30.
Gasket flammability index 1 when tested to AS1530.2.
BAL ≤FZ when used with a BAL rated door bottom seal in accordance with AS 3959.

Energy NCC Pt. 3.12.3.3 & J3.4.



CLASSIFIED UL R37913

certifire CF 5710



RP111Si

The RP111Si is a weather proof threshold plate seal suited to outward opening butt hinged doors. It is ideal for use with a panic type exit device (by others).

For acoustic applications the void under the threshold should be filled with sound foam or other suitable material (by others).

The RP67 drip strip should be considered for above the doorway if there is no eave.

Ideal for use in conjunction with the Raven RP93Si perimeter seal and Raven astragals.

Location: Door sill of outward opening doors. (butt hinges recommended).

Min/Max Gap: Compression 0mm to 2mm.

Finish: Satin clear (silver) anodised aluminium (25µm).

Fixing: Screw fix or builders adhesive for concealed fixing (user determined). Zinc plated, cross recess head CSK S.T. screws supplied.

Seal: RP393Si. Black silicon rubber (SE).

Sizes: Available in stock lengths.

Approvals

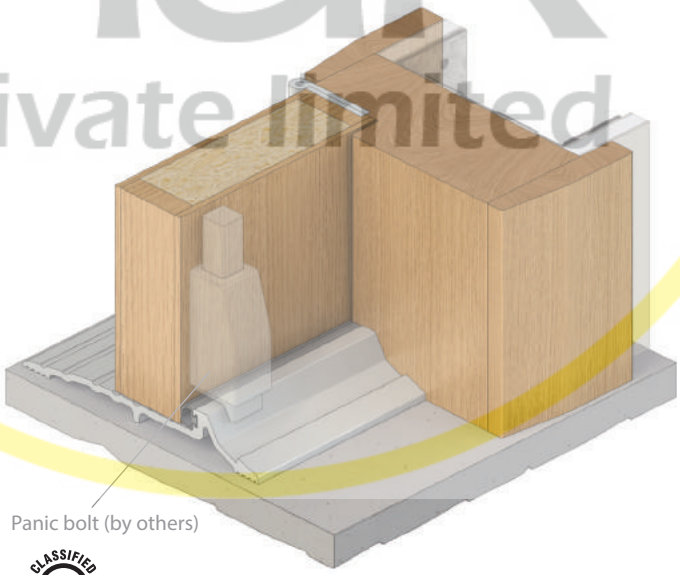
ANSI/BHMA A156.22

Access & Mobility NZ: NZ BC Compliance Doc. D1/AS1 1.3.2.

Acoustic AUS/NZ: NCC Spec. F5.5.
UK/EU: Approved Document E. Rated to BS EN ISO 717-1.

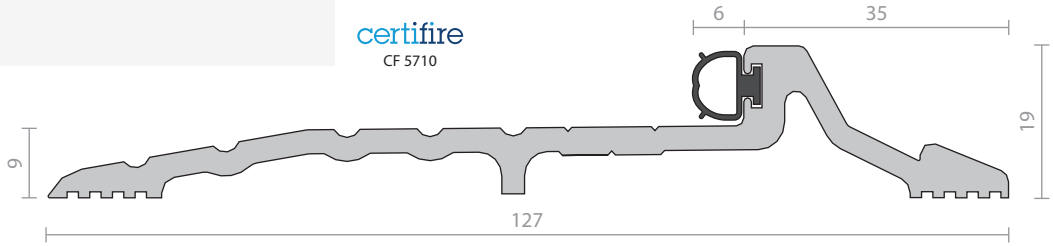
Fire & Smoke AUS/NZ: NCC Spec. C3.4. NZ BC Compliance Doc. C/AS1 6.19.2 & App. C6.1.1.
UK/EU: BS EN 1634-1.
FRL & FRR-/240/30 and FD30.
Gasket flammability index 1 when tested to AS1530.2.
BAL ≤FZ when used with a BAL rated door bottom seal in accordance with AS 3959.

Energy NCC Pt. 3.12.3.3 & J3.4.



CLASSIFIED UL R37913

certifire CF 5710



RP117Si

The RP117Si is a weather proof threshold plate seal suited to outward opening butt hinged doors. It is ideal for use with a panic type exit device (by others).

For acoustic applications the void under the threshold should be filled with sound foam or other suitable material (by others).

The RP67 drip strip should be considered for above the doorway if there is no eave.

Ideal for use in conjunction with the Raven RP118Si perimeter seal and Raven astragals.

Location: Door sill of outward opening doors. (butt hinges recommended).

Min/Max Gap: Compression 0mm to 2mm.

Finish: Satin clear (silver) anodised aluminium (25µm).

Fixing: Screw fix or builders adhesive for concealed fixing (user determined). Zinc plated, cross recess head CSK S.T. screws supplied.

Seal: RP308Si. Grey silicon rubber (SE).

Sizes: Available in stock lengths.

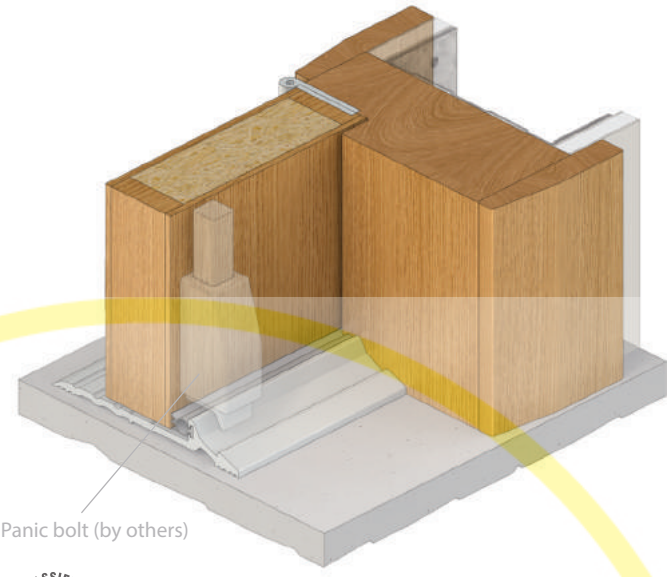
Approvals

Access & Mobility NZ: NZ BC Compliance Doc. D1/AS1 1.3.2.
UK/EU: Approved Document M.

Acoustic AUS/NZ: NCC Spec. F5.5.
UK/EU: Approved Document E. Rated to BS EN ISO 717-1.

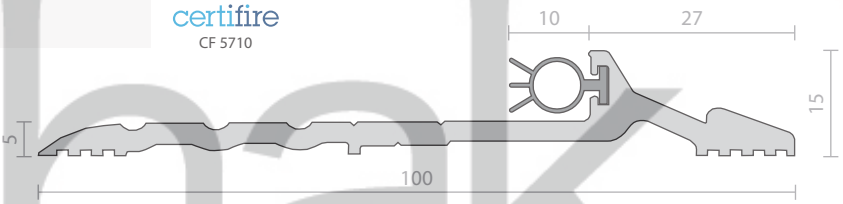
Fire & Smoke AUS/NZ: NCC Spec. C3.4. NZ BC Compliance Doc. C/AS1 6.19.2 & App. C6.1.1.
UK/EU: Approved Document B. BS EN 1634-1.
FRL & FRR-/240/30 and FD30.
Gasket flammability index 1 when tested to AS1530.2.
BAL ≤FZ when used with a BAL rated door bottom seal in accordance with AS 3959.

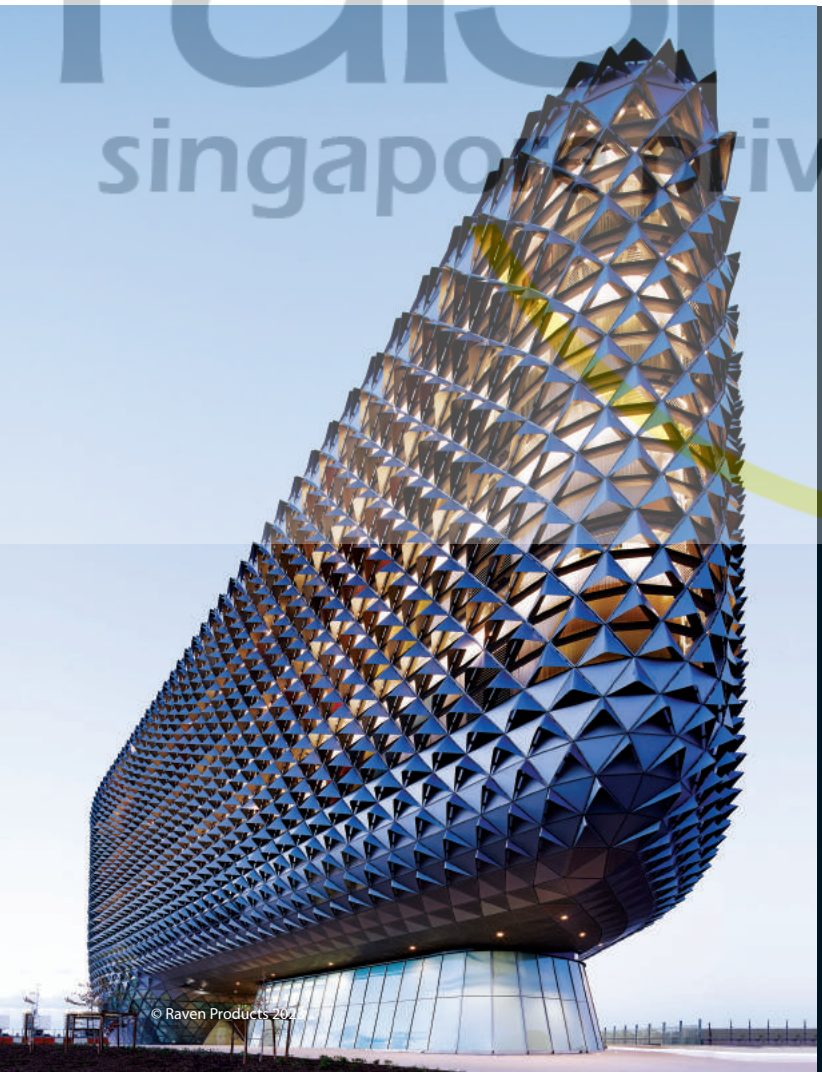
Energy NCC Pt. 3.12.3.3 & J3.4.



R37913

CF 5710





Raven Meets The Challenge

The South Australian Health and Medical Research Institute (SAHMRI) is South Australia's first independent, flagship health and medical research institute and the pioneer of the state's new Health and Biomedical Precinct.

Raven, the industry leader of door and window sealing systems, were sought to meet the sealing challenges of this iconic building which will house 600 local, interstate and international researchers.

Raven seals were required to perform across multiple levels from the exclusion of weather through to acoustic attenuation and the containment of energy. Raven's tested and certified sealing systems were chosen due to the high level of compliance and certification requirements along with Raven's flexibility to meet the building's bespoke requirements.

Raven developed a perimeter seal for the SAHMRI project which included smooth sealing bulbs for easy cleaning and fully adjustable fixing components that ensures an optimum seal at all times.

Threshold Plates

Threshold plates are hard anodised, aluminium extrusions that are fitted to the sill under doors; they provide a clean delineation between adjacent floor surfaces. A weather barrier in themselves, threshold plates provide an optimum sealing surface for door bottom seals. Being hard wearing, threshold plates offer an elevated sealing surface which, in the case of door bottom sweep seals, prevents contact or excessive resistance over carpeted or uneven floors.

Raven threshold plates have been designed to withstand the day to day rigours of heavy pedestrian and wheeled traffic encountered in commercial buildings. Their low profile designs do not impede wheeled traffic nor do they present a tripping hazard for pedestrian traffic.

Where disabled access is a requirement, ensure that the threshold plate is suitable for wheeled access and that it conforms to the relevant building code or standard. To assist with selection, a wheelchair icon is shown including the approvals description.

RP4b

M

A medium duty threshold plate with integral sill gasket for use in conjunction with Raven door bottom seals.

Location: Door sill.

Finish: Satin clear (silver) or bronze anodised aluminium (25µm).

Fixing: Screw fix. Zinc plated, cross recess head CSK S.T. screws supplied. Fixing holes are pre-punched and countersunk.

Seal: RP404a. Grey flexible PVC.

Sizes: Available in stock lengths.

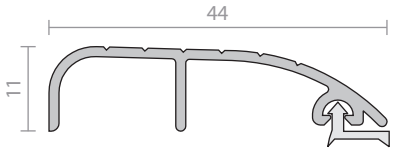
Approvals

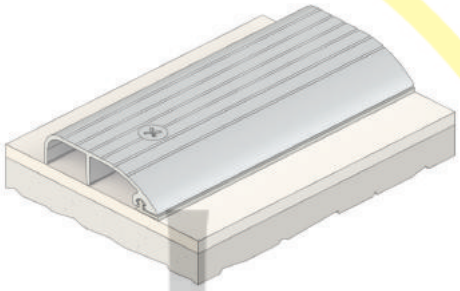
ANSI/BHMA A156.21

Access & Mobility NZ: NZ BC Compliance Doc. D1/AS1 1.3.2.
UK/EU: Approved Document M.

Fire AUS/NZ: NCC Spec. C3.4. AS1530.4 & AS/NZS 1905.1. NZ BC Compliance Doc. C/AS1 6.19.2(a) & App. C6.1.1.
UK/EU: Approved Document B. BS 476 Pt. 20 & 22 (similar to BS EN 1634-1).
FRL & FRR-/240/30.

BAL ≤FZ when used with a BAL rated door bottom seal in accordance with AS 3959.





RP13

H

A low profile threshold plate that is ideal for use in conjunction with Raven door bottom seals to prevent rain, draughts, noise and smoke infiltration.

Location: Door sill.

Finish: Satin clear (silver) or bronze anodised aluminium (25µm).

Fixing: Screw fix or builders adhesive for concealed fixing (user determined). Colour matched zinc plated, cross recess head CSK S.T. screws supplied.

Sizes: Available in stock lengths.

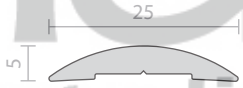
Approvals

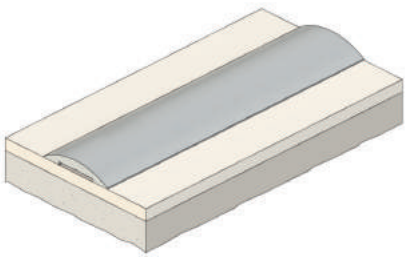
ANSI/BHMA A156.21

Access & Mobility AUS/NZ: NCC D2.15 & D3.3. AS1428.1. NZ BC Compliance Doc. D1/AS1 1.3.2.
UK/EU: Approved Document M.

Fire AUS/NZ: NCC Spec. C3.4. AS1530.4 & AS/NZS 1905.1. NZ BC Compliance Doc. C/AS1 6.19.2(a) & App. C6.1.1.
UK/EU: Approved Document B. BS 476 Pt. 20 & 22 (similar to BS EN 1634-1).
FRL & FRR-/240/30.

BAL ≤FZ when used with a BAL rated door bottom seal in accordance with AS 3959.





CLASSIFIED UL R37913

RP18

H

A heavy duty threshold plate designed for butt hinged, single, double, or pivot hinge doors. It allows the door leaf to clear high pile carpets which have been laid up to the frame. It has been designed to accommodate concealed screw fixings through the door jambs.

An aluminium door frame, complete with the threshold plate, can be assembled by a door fabricator prior to transporting as a complete unit. RP18 will accommodate Pivot Sets for most types of Transom Closers.

Used in Conjunction with Raven door bottom seals RP2b and RP74 (RP8Si butt hinged doors).

Location: Door sill of single, double butt hinged or pivot hinged doors.

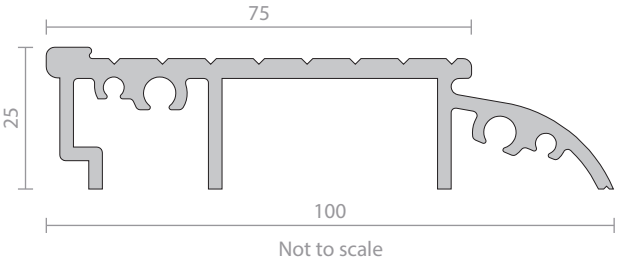
Finish: Satin clear (silver) anodised aluminium (25µm).

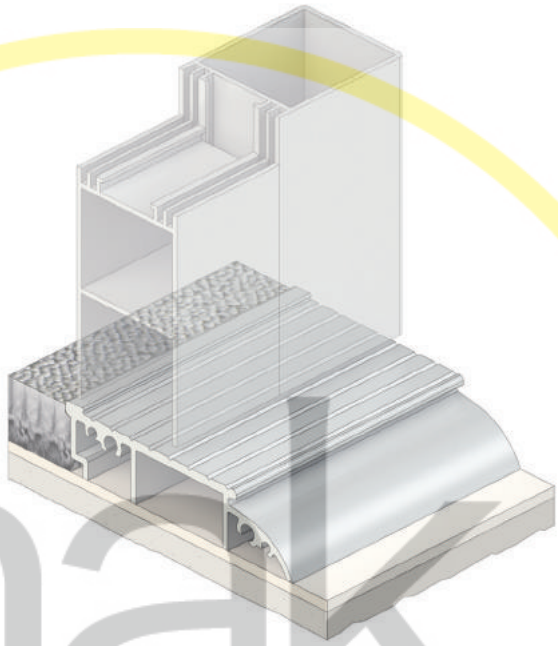
Fixing: By door fabricator.

Sizes: Available in stock lengths.

Approvals

ANSI/BHMA A156.21





CLASSIFIED UL R37913

RP19

H

A heavy duty threshold plate with ribbed profile and integral sill gaskets.

Can be used in conjunction with Raven door bottom seals to prevent rain, draughts, noise and smoke infiltration.

RP19 has been designed to accommodate a concealed screw fix through the door jambs.

Location: Door sill.

Finish: Satin clear (silver) anodised aluminium (25µm).

Fixing: Screw fix. Colour matched zinc plated, cross recess head CSK S.T. screws supplied.

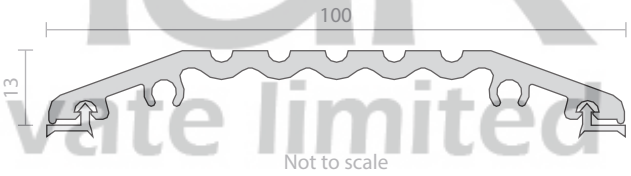
Seal: RP404a. Grey flexible PVC.

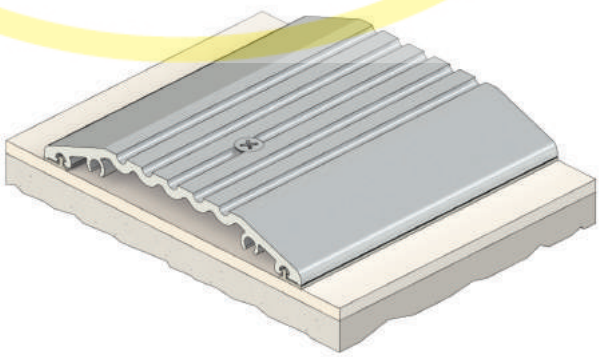
Sizes: Available in stock lengths.

Approvals

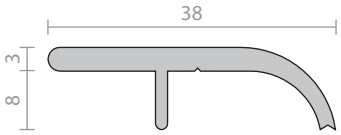
Access & Mobility NZ: NZ BC Compliance Doc. D1/AS1 1.3.2.
UK/EU: Approved Document M.

Fire AUS/NZ: NCC Spec. C3.4. AS1530.4 & AS/NZS 1905.1. NZ BC Compliance Doc. C/AS1 6.19.2(a) & App. C6.1.1.
UK/EU: Approved Document B. BS 476 Pt. 20 & 22 (similar to BS EN 1634-1).
FRL & FRR-/240/30.
BAL ≤FZ when used with a BAL rated door bottom seal in accordance with AS 3959.





RP27



A heavy duty threshold plate designed for sill and carpet edge protection.

Can be used in conjunction with Raven door bottom seals to prevent rain, draughts, noise and smoke infiltration.

Location: Door sill.

Finish: Satin clear (silver) anodised aluminium (25µm).

Fixing: Screw fix. Colour matched zinc plated, cross recess head CSK S.T. screws supplied.

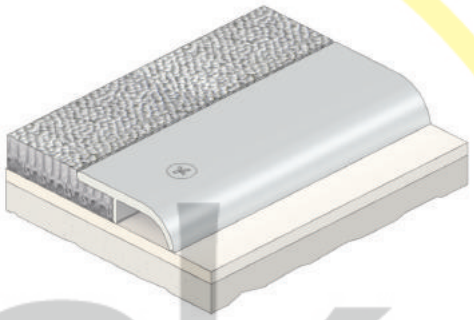
Sizes: Available in stock lengths.

Approvals

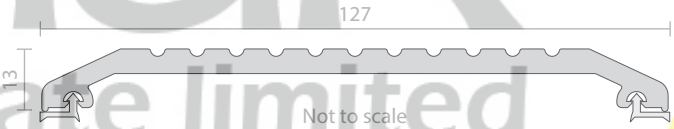
ANSI/BHMA A156.21

Access & Mobility NZ: NZ BC Compliance Doc. D1/AS1 1.3.2.
UK/EU: Approved Document M.

Fire AUS/NZ: NCC Spec. C3.4. AS1530.4 & AS/NZS 1905.1. NZ BC Compliance Doc. C/AS1 6.19.2(a) & App. C6.1.1.
UK/EU: Approved Document B. BS 476 Pt. 20 & 22 (similar to BS EN 1634-1).
FRL & FRR-/240/30.
BAL ≤FZ when used with a BAL rated door bottom seal in accordance with AS 3959.



RP28



RP28 is a wide, heavy duty threshold plate with a ribbed profile and integral sill gaskets. They are ideal for use with pivot hinge doors.

Can be used in conjunction with Raven door bottom seals to prevent rain, draughts, noise and smoke infiltration.

Location: Door sill.

Finish: Satin clear (silver) anodised aluminium (25µm).

Fixing: Screw fix. Colour matched zinc plated, cross recess head CSK S.T. screws supplied.

Seal: RP404a. Grey flexible PVC.

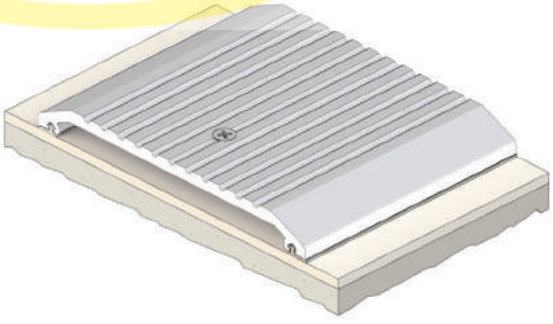
Sizes: Available in stock lengths.

Approvals

ANSI/BHMA A156.21

Access & Mobility NZ: NZ BC Compliance Doc. D1/AS1 1.3.2.
UK/EU: Approved Document M.

Fire AUS/NZ: NCC Spec. C3.4. AS1530.4 & AS/NZS 1905.1. NZ BC Compliance Doc. C/AS1 6.19.2(a) & App. C6.1.1.
UK/EU: Approved Document B. BS 476 Pt. 20 & 22 (similar to BS EN 1634-1).
FRL & FRR-/240/30 and FD120.
BAL ≤FZ when used with a BAL rated door bottom seal in accordance with AS 3959.



CLASSIFIED UL R37913

RP29

RP29 is a wide, heavy duty threshold plate with a ribbed profile and integral sill gaskets. They are ideal for use with pivot hinge doors.

Can be used in conjunction with Raven door bottom seals to prevent rain, draughts, noise and smoke infiltration.

Location: Door sill.

Finish: Satin clear (silver) anodised aluminium (25µm).

Fixing: Screw fix. Colour matched zinc plated, cross recess head CSK S.T. screws supplied.

Seal: RP404a. Grey flexible PVC.

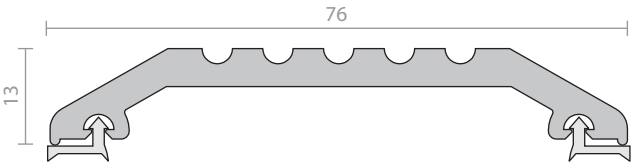
Sizes: Available in stock lengths.

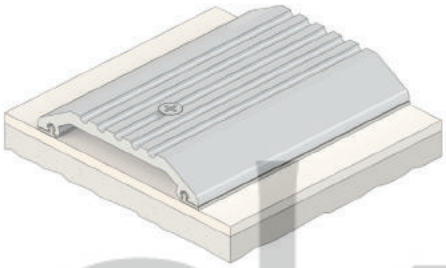
Approvals

ANSI/BHMA A156.21

Access & Mobility NZ: NZ BC Compliance Doc. D1/AS1 1.3.2.
UK/EU: Approved Document M.

Fire AUS/NZ: NCC Spec. C3.4. AS1530.4 & AS/NZS 1905.1. NZ BC Compliance Doc. C/AS1 6.19.2(a) & App. C6.1.1.
UK/EU: Approved Document B. BS 476 Pt. 20 & 22 (similar to BS EN 1634-1).
FRL & FRR-/240/30 and FD120.
BAL ≤FZ when used with a BAL rated door bottom seal in accordance with AS 3959.





CLASSIFIED UL R37913

RP66

A flush fitting threshold plate designed for use on internal doors with carpeted floors. The RP66 can be used in conjunction with Raven door bottom seals such as the RP38Si to provide an optimum sealing surface as carpets can flatten and thus reduce sealing effectiveness. RP66 has concealed fixings with self adhesive aluminium insert.

Location: Door sill of internal doors with carpeted sills.

Finish: Satin clear (silver) anodised aluminium (25µm).

Fixing: Screw fix with self adhesive insert. Zinc plated, cross recess head CSK S.T. screws supplied.

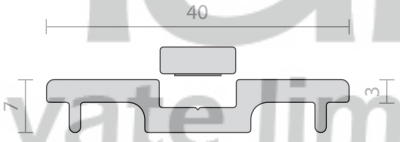
Sizes: Available in stock lengths.

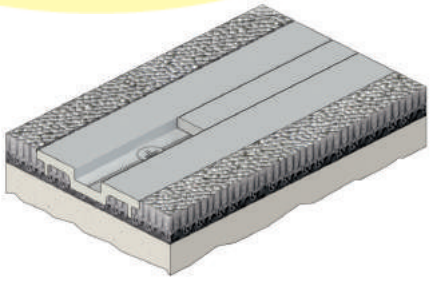
Approvals

ANSI/BHMA A156.21

Access & Mobility AUS/NZ: NCC D2.15 & D3.3. AS1428.1. NZ BC Compliance Doc. D1/AS1 1.3.2.
UK/EU: Approved Document M.

Fire AUS/NZ: NCC Spec. C3.4. AS1530.4 & AS/NZS 1905.1. NZ BC Compliance Doc. C/AS1 6.19.2(a) & App. C6.1.1.
UK/EU: Approved Document B. BS 476 Pt. 20 & 22 (similar to BS EN 1634-1).
FRL & FRR-/240/30.





RP77

A heavy duty threshold ramp with a ribbed design which can be positioned back to back to form a two way threshold ramp conforming to NCC Pt. D2.15 Thresholds (b).

Can be used in conjunction with Raven door bottom seals to prevent rain, draughts, noise and smoke infiltration. Suitable for use with most floor pivots.

Ideal for commercial shop fronts providing a neat ramp detail between carpets or tiles at door ways.

Can also be used to provide a ramped frame for internal door mats.

Location: Door sill.

Finish: Satin clear (silver), bronze or black anodised aluminium (25µm).

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

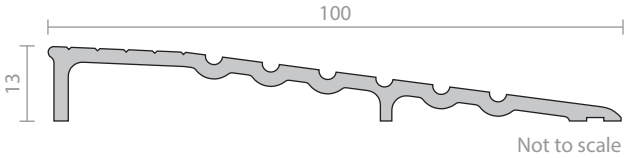
Sizes: Available in stock lengths. Specify longer length than doorway to allow for neat installation around door frame.

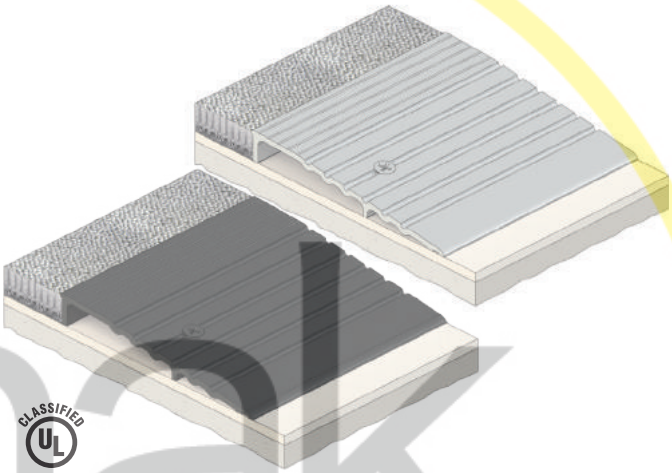
Approvals

ANSI/BHMA A156.21

Access & Mobility AUS/NZ: NCC D2.15 & D3.3. AS1428.1. NZ BC Compliance Doc. D1/AS1 1.3.2.
UK/EU: Approved Document M.

Fire AUS/NZ: NCC Spec. C3.4. AS1530.4 & AS/NZS 1905.1. NZ BC Compliance Doc. C/AS1 6.19.2(a) & App. C6.1.1.
UK/EU: Approved Document B. BS 476 Pt. 20 & 22 (similar to BS EN 1634-1).
FRL & FRR-/240/30.
BAL ≤FZ when used with a BAL rated door bottom seal in accordance with AS 3959.





CLASSIFIED UL R37913

RP82

A low profile threshold plate that is ideal for use in conjunction with Raven door bottom seals to prevent rain, draughts, noise and smoke infiltration.

Location: Door sill.

Finish: Satin clear (silver) or bronze anodised aluminium (25µm).

Fixing: Screw fix or builders adhesive for concealed fixing (user determined). Colour matched zinc plated, cross recess head CSK S.T. screws supplied.

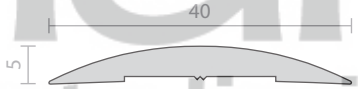
Sizes: Available in stock lengths.

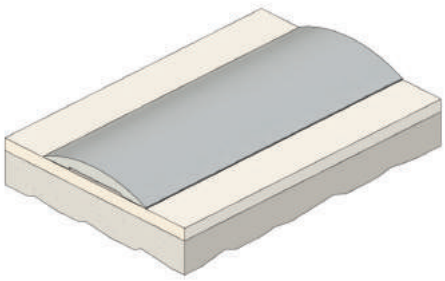
Approvals

ANSI/BHMA A156.21

Access & Mobility AUS/NZ: NCC D2.15 & D3.3. AS1428.1. NZ BC Compliance Doc. D1/AS1 1.3.2.
UK/EU: Approved Document M.

Fire AUS/NZ: NCC Spec. C3.4. AS1530.4 & AS/NZS 1905.1. NZ BC Compliance Doc. C/AS1 6.19.2(a) & App. C6.1.1.
UK/EU: Approved Document B. BS 476 Pt. 20 & 22 (similar to BS EN 1634-1).
FRL & FRR-/240/30.
BAL ≤FZ when used with a BAL rated door bottom seal in accordance with AS 3959.





CLASSIFIED UL R37913

RP91

A heavy duty threshold plate with integral sill gasket that can be used in conjunction with Raven door bottom seals on roll-up and tilt up doors.

RP91 has an upstand to prevent water penetration and a ramped section to shed water away.

Location: Door sill.

Finish: Satin clear (silver) anodised aluminium (25µm).

Fixing: Screw fix. Colour matched zinc plated, cross recess head CSK S.T. screws supplied.

Seal: RP404a. Grey flexible PVC.

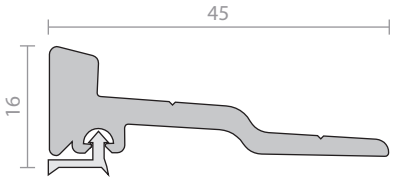
Sizes: Available in stock lengths.

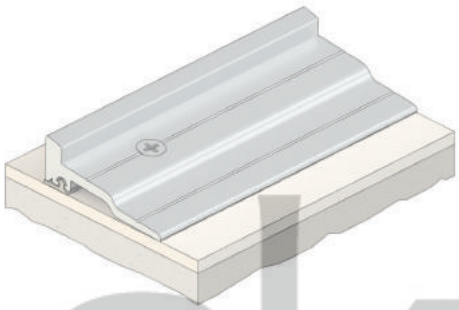
Approvals

ANSI/BHMA A156.21

Access & Mobility NZ: NZ BC Compliance Doc. D1 Pt. 1.3.2.

Fire AUS/NZ: NCC Spec. C3.4. AS1530.4 & AS/NZS 1905.1. NZ BC Compliance Doc. C/AS1 6.19.2(a) & App. C6.1.1.
UK/EU: Approved Document B. Approved to BS 476 Pt. 20 & 22 (similar to BS EN 1634-1).
FRL & FRR-/240/30.
BAL ≤FZ when used with a BAL rated door bottom seal in accordance with AS 3959.





RP95

A low profile threshold plate that can be used in conjunction with Raven door bottom seals to prevent rain, draught, noise and smoke infiltration.

Location: Door sill.

Finish: Satin clear (silver), bronze or black anodised aluminium (25µm).

Fixing: Screw fix or builders adhesive for concealed fixing (user determined). Colour matched zinc plated, cross recess head CSK S.T. screws supplied.

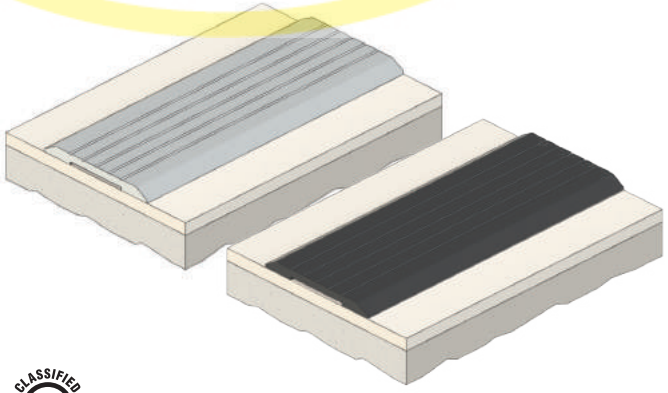
Sizes: Available in stock lengths.

Approvals

ANSI/BHMA A156.21

Access & Mobility AUS/NZ: NCC D2.15 & D3.3. AS1428.1. NZ BC Compliance Doc. D1/AS1 1.3.2.
UK/EU: Approved Document M.

Fire AUS/NZ: NCC Spec. C3.4. AS1530.4 & AS/NZS 1905.1. NZ BC Compliance Doc. C/AS1 6.19.2(a) & App. C6.1.1.
UK/EU: Approved Document B. BS 476 Pt. 20 & 22 (similar to BS EN 1634-1).
FRL & FRR-/240/30 and FD240.
BAL ≤FZ when used with a BAL rated door bottom seal in accordance with AS 3959.



CLASSIFIED UL R37913

RP96

A low profile threshold plate that can be used in conjunction with Raven door bottom seals to prevent rain, draught, noise and smoke infiltration.

Location: Door sill.

Finish: Satin clear (silver) or bronze anodised aluminium (25µm).

Fixing: Screw fix or builders adhesive for concealed fixing (user determined). Colour matched zinc plated, cross recess head CSK S.T. screws supplied.

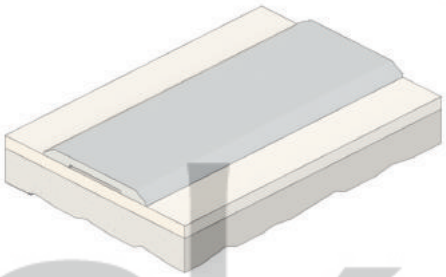
Sizes: Available in stock lengths.

Approvals

ANSI/BHMA A156.21

Access & Mobility AUS/NZ: NCC D2.15 & D3.3. AS1428.1. NZ BC Compliance Doc. D1/AS1 1.3.2.
UK/EU: Approved Document M.

Fire AUS/NZ: NCC Spec. C3.4. AS1530.4 & AS/NZS 1905.1. NZ BC Compliance Doc. C/AS1 6.19.2(a) & App. C6.1.1.
UK/EU: Approved Document B. BS 476 Pt. 20 & 22 (similar to BS EN 1634-1).
FRL & FRR-/240/30 and FD240.
BAL ≤FZ when used with a BAL rated door bottom seal in accordance with AS 3959.



CLASSIFIED UL R37913

RP98

A heavy duty threshold ramp with a ribbed design which can be positioned back to back to form a two way threshold ramp conforming to NCC Pt. D2.15 Thresholds (b).

Can be used in conjunction with Raven door bottom seals to prevent rain, draughts, noise and smoke infiltration. Suitable for use with most floor pivots.

Ideal for commercial shop fronts providing a neat ramp detail between carpets or tiles at door ways.

Can also be used to provide a ramped frame for internal door mats.

Location: Door sill.

Finish: Satin clear (silver) anodised aluminium (25µm).

Fixing: Screw fix. Zinc plated, cross recess head CSK S.T. screws supplied. Can be fastened with builders adhesive for concealed fixing.

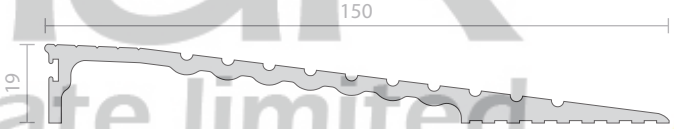
Sizes: Available in stock lengths. Specify longer length than doorway to allow for neat installation around door frame.

Approvals

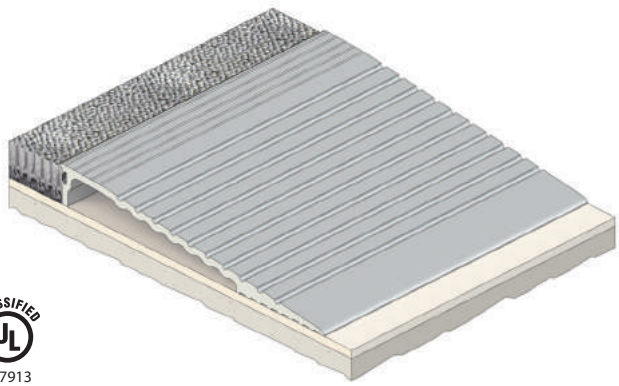
ANSI/BHMA A156.21

Access & Mobility AUS/NZ: NCC D2.15 & D3.3. AS1428.1. NZ BC Compliance Doc. D1/AS1 1.3.2.
UK/EU: Approved Document M.

Fire AUS/NZ: NCC Spec. C3.4. AS1530.4 & AS/NZS 1905.1. NZ BC Compliance Doc. C/AS1 6.19.2(a) & App. C6.1.1.
UK/EU: Approved Document B. BS 476 Pt. 20 & 22 (similar to BS EN 1634-1).
FRL & FRR-/240/30.
BAL ≤FZ when used with a BAL rated door bottom seal in accordance with AS 3959.

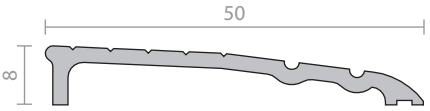


Not to scale



CLASSIFIED UL R37913

RP112



A medium duty threshold plate which can be positioned back to back to form a two way threshold ramp conforming to NCC Pt. D2.15 Thresholds (b).

Can be used in conjunction with Raven door bottom seals to prevent rain, draughts, noise and smoke infiltration.

Can also be used to provide a ramped frame for internal door mats and tiles.

Location: Door sill.

Finish: Satin clear (silver) or bronze anodised aluminium (25µm).

Fixing: Screw fix. Colour matched zinc plated, cross recess head CSK S.T. screws supplied.

Sizes: Available in stock lengths.

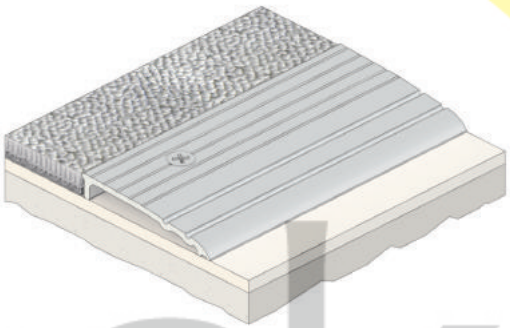
Approvals

ANSI/BHMA A156.21

Access & Mobility AUS/NZ: NCC D2.15 & D3.3. AS1428.1. NZ BC Compliance Doc. D1/AS1 1.3.2.
UK/EU: Approved Document M.

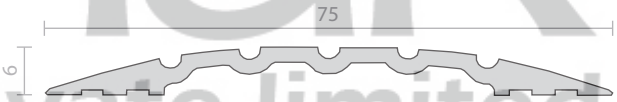
Fire AUS/NZ: NCC Spec. C3.4. AS1530.4 & AS/NZS 1905.1. NZ BC Compliance Doc. C/AS1 6.19.2(a) & App. C6.1.1.
UK/EU: Approved Document B. BS 476 Pt. 20 & 22 (similar to BS EN 1634-1).
FRL & FRR-/240/30 and FD240.

BAL ≤FZ when used with a BAL rated door bottom seal in accordance with AS 3959.



CLASSIFIED UL R37913

RP115



A low profile threshold plate that can be used in conjunction with Raven door bottom seals to prevent rain, draughts, noise and smoke infiltration. Suitable for use with most floor pivots.

Location: Door sill.

Finish: Satin clear (silver), bronze or black anodised aluminium (25µm).

Fixing: Screw fix or builders adhesive for concealed fixing (user determined). Colour matched zinc plated, cross recess head CSK S.T. screws supplied.

Sizes: Available in stock lengths.

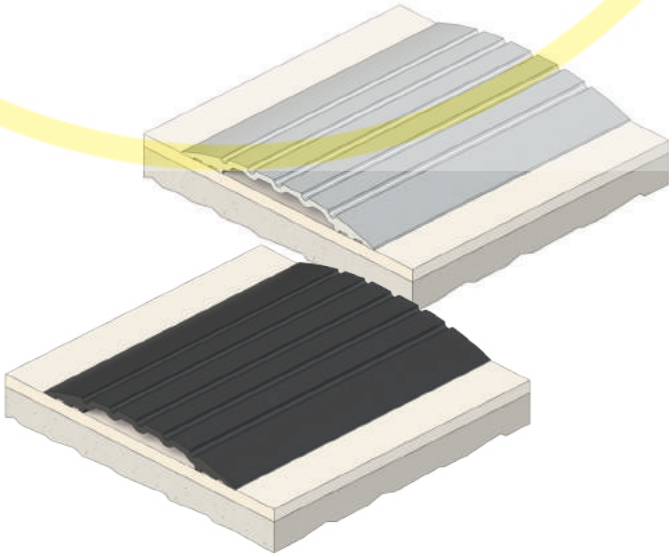
Approvals

ANSI/BHMA A156.21

Access & Mobility AUS/NZ: NCC D2.15 & D3.3. AS1428.1. NZ BC Compliance Doc. D1/AS1 1.3.2.
UK/EU: Approved Document M.

Fire AUS/NZ: NCC Spec. C3.4. AS1530.4 & AS/NZS 1905.1. NZ BC Compliance Doc. C/AS1 6.19.2(a) & App. C6.1.1.
UK/EU: Approved Document B. BS 476 Pt. 20 & 22 (similar to BS EN 1634-1).
FRL & FRR-/240/30 and FD180.

BAL ≤FZ when used with a BAL rated door bottom seal in accordance with AS 3959.



RP116

A low profile threshold plate that can be used in conjunction with Raven door bottom seals to prevent rain, draughts, noise and smoke infiltration. Suitable for use with most floor pivots.

Location: Door sill.

Finish: Satin clear (silver), bronze or black anodised aluminium (25µm).

Fixing: Screw fix or builders adhesive for concealed fixing (user determined). Colour matched zinc plated, cross recess head CSK S.T. screws supplied.

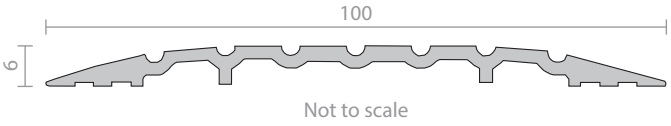
Sizes: Available in stock lengths.

Approvals

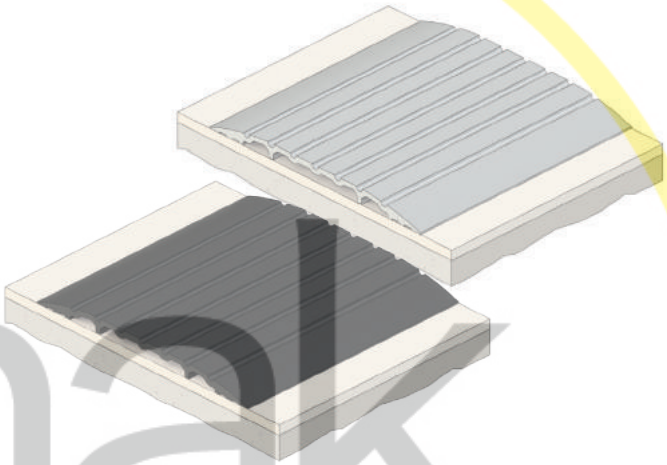
ANSI/BHMA A156.21

Access & Mobility AUS/NZ: NCC D2.15 & D3.3. AS1428.1. NZ BC Compliance Doc. D1/AS1 1.3.2.
UK/EU: Approved Document M.

Fire AUS/NZ: NCC Spec. C3.4. AS1530.4 & AS/NZS 1905.1. NZ BC Compliance Doc. C/AS1 6.19.2(a) & App. C6.1.1.
UK/EU: Approved Document B. BS 476 Pt. 20 & 22 (similar to BS EN 1634-1).
FRL & FRR-/240/30 and FD180.
BAL ≤FZ when used with a BAL rated door bottom seal in accordance with AS 3959.



Not to scale



RP137

A low profile, extra wide heavy duty threshold plate that can be used in conjunction with Raven door bottom seals to prevent rain, draughts, noise and smoke infiltration. Ideal for larger style commercial door frames.

Location: Door sill.

Finish: Satin clear (silver) anodised aluminium (25µm).

Fixing: Screw fix or builders adhesive for concealed fixing (user determined). Colour matched zinc plated, cross recess head CSK S.T. screws supplied.

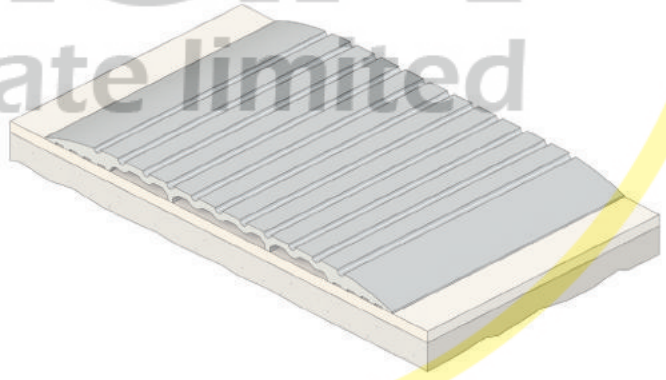
Sizes: 3000mm, 2000mm, 1750mm, 1000mm.

Approvals

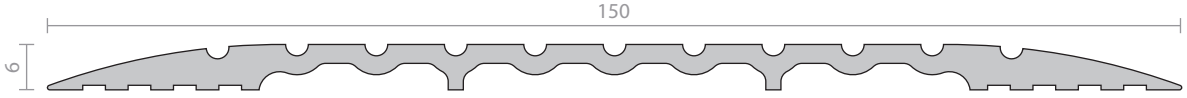
ANSI/BHMA A156.21

Access & Mobility AUS/NZ: NCC D2.15 & D3.3. AS1428.1. NZ BC Compliance Doc. D1/AS1 1.3.2.
UK/EU: Approved Document M.

Fire AUS/NZ: NCC Spec. C3.4. AS1530.4 & AS/NZS 1905.1. NZ BC Compliance Doc. C/AS1 6.19.2(a) & App. C6.1.1.
UK/EU: Approved Document B. BS 476 Pt. 20 & 22 (similar to BS EN 1634-1).
FRL & FRR-/240/30 and FD180.
BAL ≤FZ when used with a BAL rated door bottom seal in accordance with AS 3959.



CLASSIFIED UL R37913



RP138

A heavy duty threshold ramp that can be used as a border for internal floor matting or be positioned back to back to form a two way threshold ramp conforming to NCC Pt. D2.15 Thresholds (b).

Ideal for larger style commercial door frames.

RP138 has been designed to accommodate a concealed screw fix through the door jambs.

Location: Door sill.

Finish: Satin clear (silver) anodised aluminium (25µm).

Fixing: Screw fix or builders adhesive for concealed fixing (user determined). Colour matched zinc plated, cross recess head CSK S.T. screws supplied.

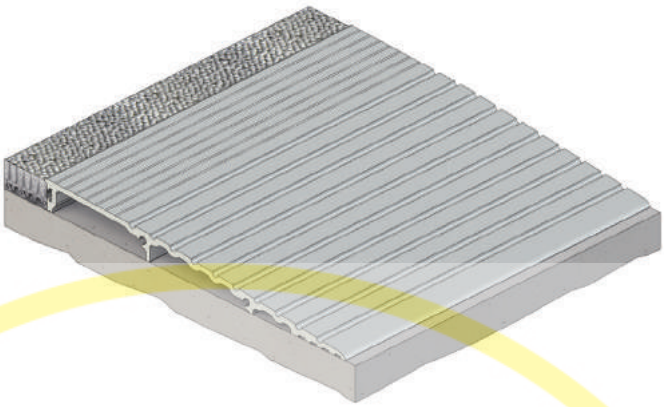
Sizes: 3000mm, 2500mm, 2000mm, 1250mm, 1000mm.

Approvals

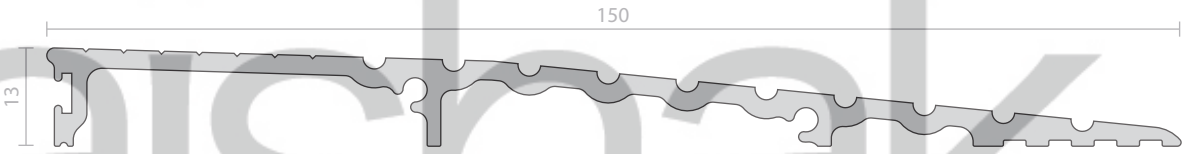
ANSI/BHMA A156.21

Access & Mobility AUS/NZ: NCC D2.15 & D3.3. AS1428.1. NZ BC Compliance Doc. D1/AS1 1.3.2.
UK/EU: Approved Document M.

Fire AUS/NZ: NCC Spec. C3.4. AS1530.4 & AS/NZS 1905.1. NZ BC Compliance Doc. C/AS1 6.19.2(a) & App. C6.1.1.
UK/EU: Approved Document B. BS 476 Pt. 20 & 22 (similar to BS EN 1634-1).
FRL & FRR-/240/30 and FD180.
BAL ≤FZ when used with a BAL rated door bottom seal in accordance with AS 3959.



CLASSIFIED UL R37913



RP151

A low profile threshold plate that can be used in conjunction with Raven door bottom seals to prevent rain, draughts, noise and smoke infiltration. Suitable for use with most floor pivots.

Location: Door sill.

Finish: Satin clear (silver) or black anodised aluminium (25µm).

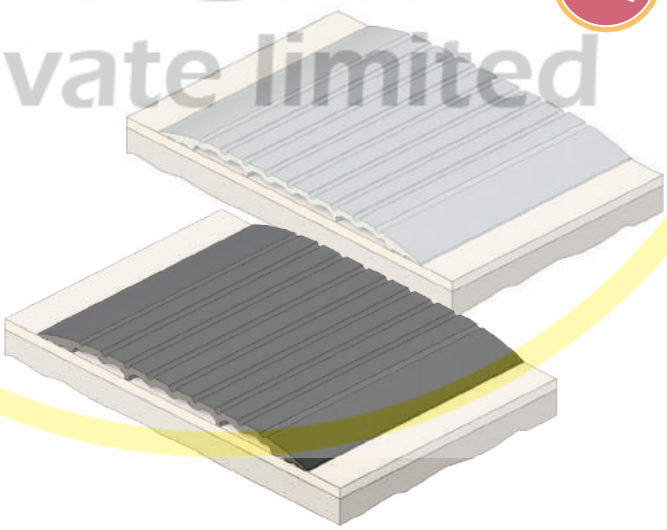
Fixing: Screw fix or builders adhesive for concealed fixing (user determined). Zinc plated, cross recess head CSK S.T. screws supplied.

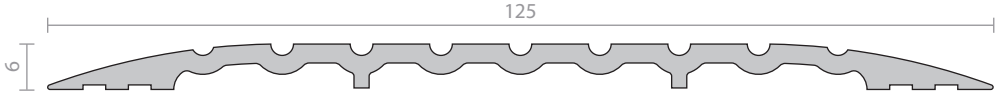
Sizes: Available in stock lengths.

Approvals

Access & Mobility AUS/NZ: NCC D2.15 & D3.3. AS1428.1. NZ BC Compliance Doc. D1/AS1 1.3.2.
UK/EU: Approved Document M.

Fire AUS/NZ: NCC Spec. C3.4. AS 1530.4 & AS 1905.1. NZ BC Compliance Doc. C/AS1 6.19.2(a) & App. C6.1.1.
UK/EU: Approved Document B. BS 476 Pt. 20 & 22 (similar to BS EN 1634-1).
FRL & FRR-/180/30 and FD180.
BAL ≤FZ when used with a BAL rated door bottom seal in accordance with AS 3959.





One Central Park, Sydney

Raven was proud to be a part of the $2 billion vertical urban village project, One Central Park in Sydney. This internationally acclaimed, twin residential apartment tower project received a 5-star Green Star rating, due to its sustainable design initiatives. One initiative was the specification and installation of Raven, Global GreenTag verified smoke, acoustic and energy conserving door sealing systems.

Requirements

To enhance the energy-saving initiatives while suiting the mixed-use nature of the project, Raven specifications included energy, fire, and smoke door sealing systems that offered a high acoustic performance. The door sealing systems chosen had to be discreet while integrating harmoniously with the prestigious nature of the project. These were key features required by the architectural team while meeting all mandated NCC requirements.

Benefits

One of Raven's sealing systems comprised of the RP78Si perimeter seal, combined with a concealed RP8Si automatic door bottom seal. This sealing system provided a complete seal around the perimeter of the door without impeding its normal operation. This proven system offered specifiers and builders an NATA certified test solution for apartment room entry doors throughout.

Door Frame / Perimeter Seals

In this catalogue, seals designed for the gap between the door and the frame (up and down the jamb and across the head of the door) are termed door frame seals or perimeter seals.

These are generally compression seals. Some are mounted on the door stop or directly onto a plain frame of the door, thereby providing a door stop seal. Some seals can be fitted to the door or neatly rebated into the frame itself.

Many Raven perimeter seals have some degree of adjustability and can be adjusted after installation without removing the door or window. This ensures an optimum seal is achieved and maximum performance is maintained in the event of minor building movement.

RP7

A rigid and flexible PVC door frame seal suitable for rebated timber frames. The RP7 rigid section can be painted. Used in conjunction with Raven door bottom seals and astragals.

Location: Timber head and jambs of single and double butt hinged doors.

Min/Max Gap: 0mm to 7mm (compression 1mm to 3mm).

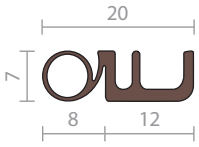
Fixing: Nail fix. Zinc plated nails supplied.

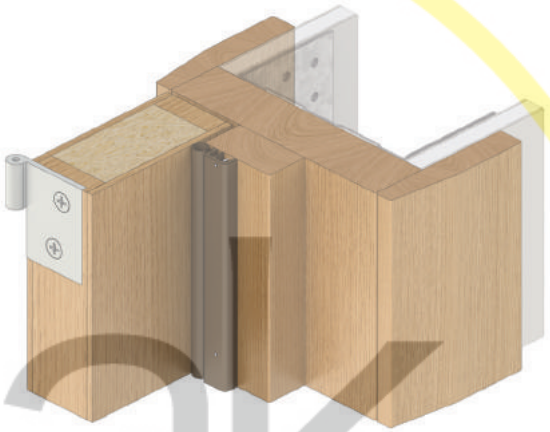
Seal: White or brown rigid and flexible PVC. Can be painted.

Sizes: Available in single door sets.

Approvals

Energy NCC Pt. 3.12.3.3 & J3.4.





RP10

An effective acoustic door stop frame seal which is quick and easy to install on plain or rebated door frames. Multi-fin design for improved noise and energy sealing. The minimum deflection design creates maximum sealing efficiency. RP10 can be mitred or butt jointed for a neat finish. Adjustable by large concealed fixing slots for a precision fit. RP10 has a tamper resistant, rigid PVC cover strip (SE). Can be used on all four sides of the door to form a bulk head seal.

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 10mm.

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: RP410. Black flexible PVC. Black rigid flexible PVC (SE) cover strip.

Sizes: Available in door set sizes or stock lengths.

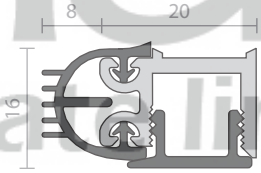
Approvals

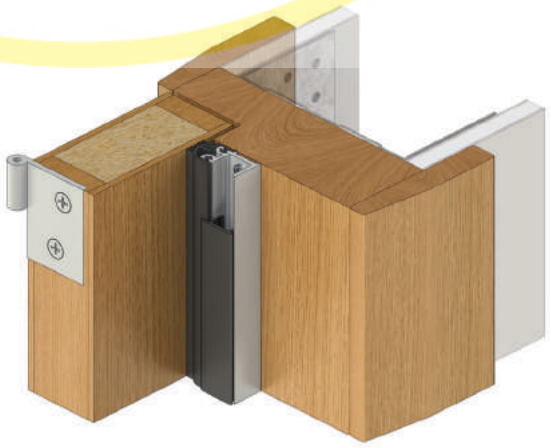
Acoustic AUS/NZ: NCC Spec. F5.5.
UK/EU: Approved Document E. Rated to BS EN ISO 717-1.

Fire AUS/NZ: NCC Spec. C3.4. AS1530.4 & AS/NZS 1905.1. NZ BC Compliance Doc. C/AS1 6.19.2 & App. C6.1.1.
UK/EU: Approved Document B. BS 476 Pt. 20 & 22 (similar to BS EN 1634-1).
FRL & FRR-/240/30 and FD240.

Energy NCC Pt. 3.12.3.3 & J3.4.

Registered Design.





RP10Si

An effective acoustic and smoke door stop frame seal which is quick and easy to install on plain or rebated door frames. Multi-fin design for improved noise and energy sealing. The minimum deflection design creates maximum sealing efficiency. RP10Si can be mitred or butt jointed for a neat finish. Adjustable by large concealed fixing slots for a precision fit, RP10Si has a tamper resistant, rigid PVC cover strip (SE). Can be used on all four sides of the door to form a bulk head seal.
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 10mm.

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

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

Seal: RP310Si. Black or light grey silicon rubber (SE).

Sizes: Available in door set sizes or stock lengths.

Approvals

ANSI/BHMA A156.22.

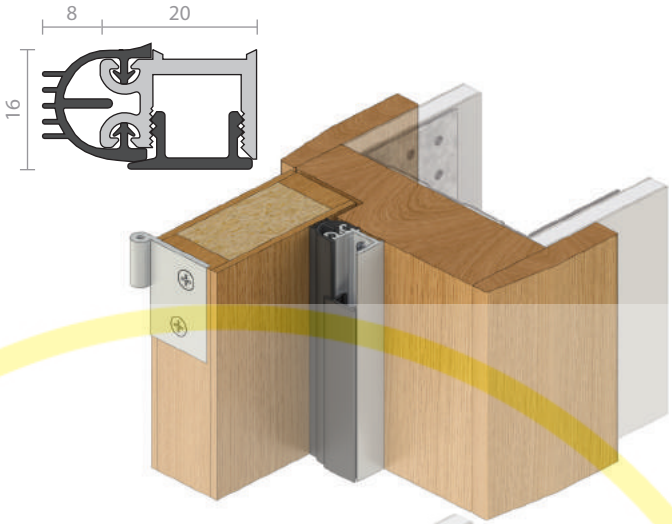
Acoustic AUS/NZ: NCC Spec. F5.5.
UK/EU: Approved Document E. Rated to BS EN ISO 717-1.

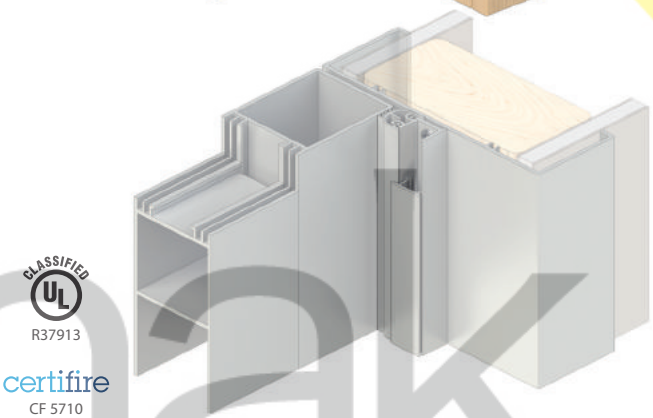
Fire AUS/NZ: NCC Spec. C3.4. AS1530.4 & AS/NZS 1905.1. NZ BC Compliance Doc. C/AS1 6.19.2 & App. C6.1.1.
UK/EU: Approved Document B. BS 476 Pt. 20 & 22 (similar to BS EN 1634-1).
FRL & FRR-/240/60 and FD240.
Gasket flammability index 1 when tested to AS1530.2.

Smoke NCC Spec. C3.4. AS1530.7 & BS EN 1634-3. Meets smoke leakage rates specified in AS6905 & EN 13501-2 "Sa", "Sm".

Energy NCC Pt. 3.12.3.3 & J3.4.

Registered Design.





CLASSIFIED UL R37913

certifire CF 5710

RP12

The RP12 has a woven pile weather strip with unique Quiet-fins for noise protection. Ideal for sliding doors and designed to limit noise leakage and control dust and air movement. The RP12 is quick and easy to install to the door or frame.

Can be used in conjunction with a double row of RP2 seals fitted into grooves in the door bottom edge or face mount RP74 to achieve a complete sealing system.

Location: Head and jambs of door frames.

Min/Max Gap: 6mm to 8mm (prior to installation).

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

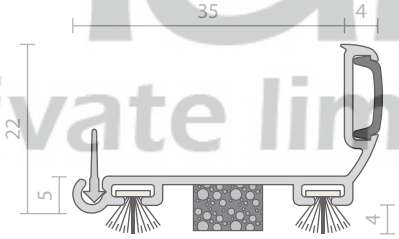
Fixing: Concealed screw fix. Zinc plated, cross recess head S.T. screws and cover strip supplied. Fixing holes are pre-slotted to allow the seals to be fitted accurately and adjustment to be made for building movement.

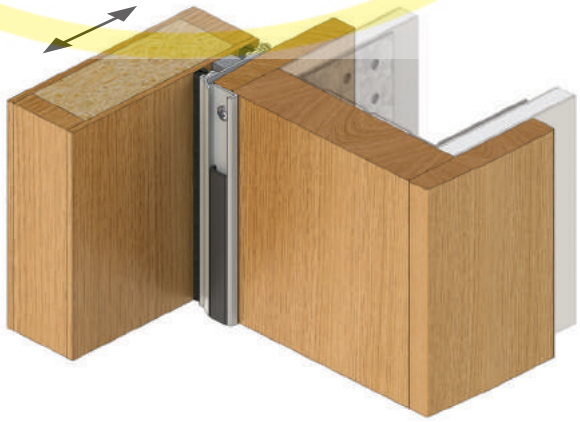
Seal: Black polypropylene pile with felt weather fins.

Sizes: Available in stock lengths.

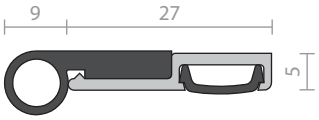
Approvals

Energy NCC Pt. 3.12.3.3 & J3.4.





RP23



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.

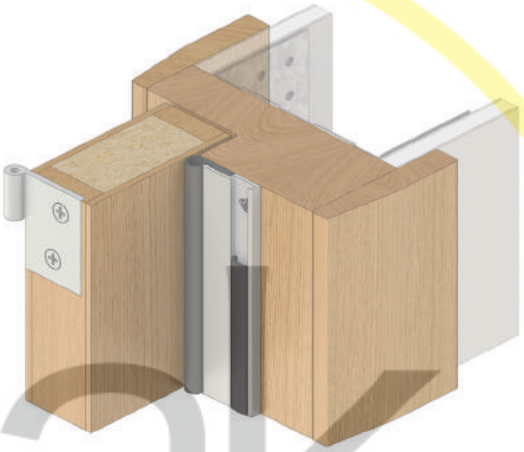
Approvals

Acoustic AUS/NZ: NCC Spec. F5.5.
UK/EU: Approved Document E. Rated to BS EN ISO 717-1.

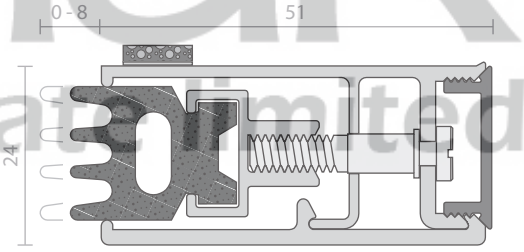
Fire AUS/NZ: NCC Spec. C3.4. AS1530.4 & AS/NZS 1905.1. NZ BC Compliance Doc. C/AS1 6.19.2 & App. C6.1.1.
UK/EU: Tests above are similar to BS EN 1634-1, BS 476 Pt. 20 & 22.
FRL & FRR-/240/60 and FD240.

Smoke NCC Spec. C3.4. AS1530.7 & BS EN 1634-3. Meets smoke leakage rates specified in AS6905 & EN 13501-2 "Sa","Sm".

Energy NCC Pt. 3.12.3.3 & J3.4.



RP24



Granted an 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) anodised aluminium (15µm) or paint at extra cost.

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

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

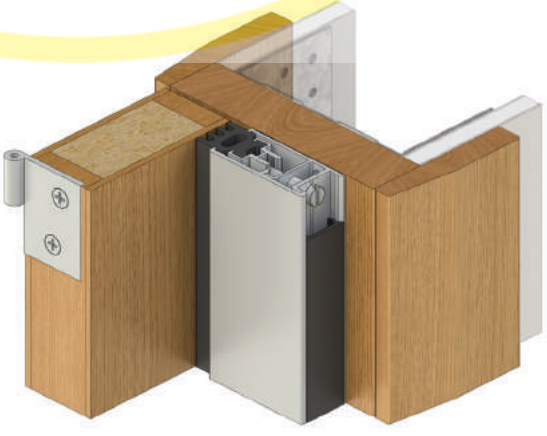
Sizes: Available in door set sizes or stock lengths.

Approvals

Acoustic AUS/NZ: NCC Spec. F5.5.
UK/EU: Approved Document E. Rated to BS EN ISO 717-1.

Fire AUS/NZ: NCC Spec. C3.4. AS1530.4 & AS/NZS 1905.1. NZ BC Compliance Doc. C/AS1 6.19.2 & App. C6.1.1.
UK/EU: Tests above are similar to BS EN 1634-1, BS 476 Pt. 20 & 22.
FRL & FRR-/240/30 and FD240.

Energy NCC Pt. 3.12.3.3 & J3.4.



RP24Si

RP24Si 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 RP24Si utilises independently adjustable screws to achieve up to 8mm sealing adjustment for maximum noise control. The silicon rubber 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, black anodised aluminium (15µm) or paint at extra cost.

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

Seal: RP338Si. Grey or black silicon rubber (SE).

Sizes: Available in door set sizes or stock lengths.

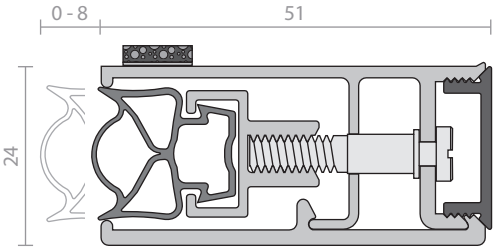
Approvals

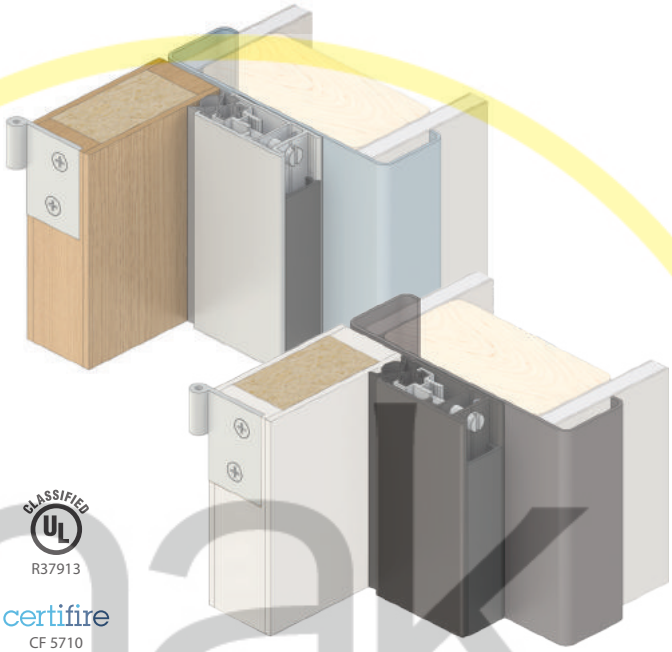
Acoustic AUS/NZ: NCC Spec. F5.5.
UK/EU: Approved Document E. Rated to BS EN ISO 717-1.

Fire AUS/NZ: NCC Spec. C3.4. NZ BC Compliance Doc. C/AS1 6.19.2 & App. C6.1.1.
UK/EU: Approved Document B.
BS EN 1634-1.
FRL & FRR-/240/60 and FD240.
To be used on door frames with a 25mm stop.
Gasket flammability index 1 when tested to AS1530.2.

Smoke NCC Spec. C3.4. AS1530.7 & BS EN 1634-3. Meets smoke leakage rates specified in AS6905 & EN 13501-2 "Sa", "Sm".

Energy NCC Pt. 3.12.3.3 & J3.4.





CLASSIFIED UL R37913
certifire CF 5710

RP39

A refrigeration type vinyl magnetic strip in an anodised aluminium housing. RP39 provides a tight seal for steel clad doors and jambs and may be used as a stop. For timber doors, a thin steel strip can be attached to the door face. The magnetic strip has sufficient closing strength that latches may not be required. It can also be used in pairs on meeting stiles of timber doors.

Note: As an astragal seal, RP39 is best suited to infrequent use and door closer hold open applications.

Location: Head, jambs and stiles of single and double butt hinged doors, sliding doors or bulkhead applications.

Min/Max Gap: 4mm to 8mm (meeting stiles).

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

Fixing: Screw fix. Zinc plated, cross recess head S.T. screws supplied. Fixing holes are slotted.

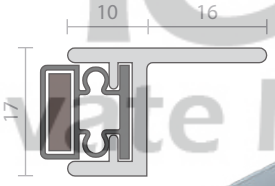
Seal: Black PVC.

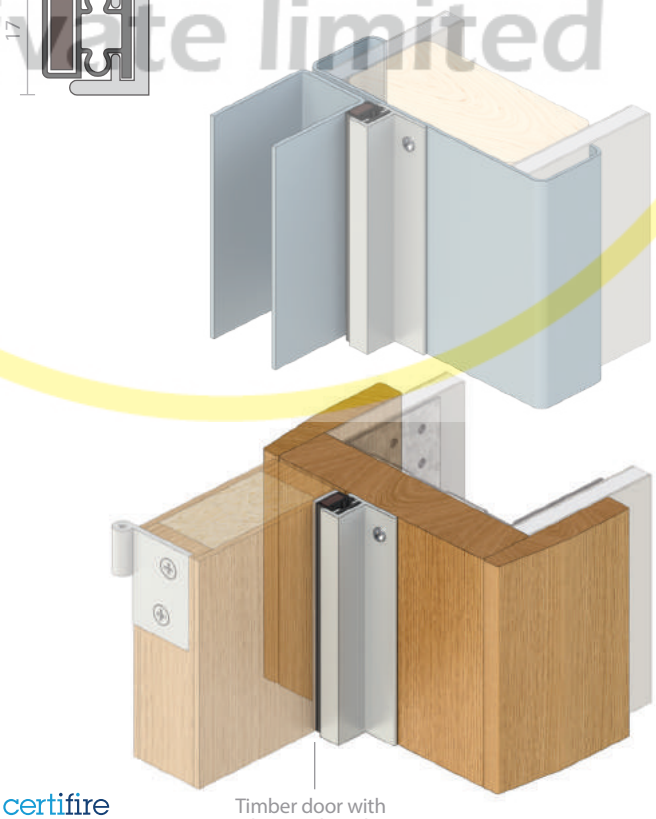
Sizes: Available in stock lengths.

Approvals

Fire AUS/NZ: NCC Spec. C3.4. AS1530.4 & AS/NZS 1905.1. NZ BC Compliance Doc C/AS1 6.19.2(a) and App C6.1.1.
UK/EU: Approved Document B.
BS 476 Pt. 20 & 22 (similar to BS EN 1634-1).
FRL & FRR-/240/30 and FD240.

Energy NCC Pt. 3.12.3.3 & J3.4.





certifire CF 5710

Timber door with steel insert (by others)

RP44Si

An effective acoustic and medium temperature smoke seal, the RP44Si has two extruded silicon bulb gaskets and can be mitred or butt jointed for a neat finish. Can be installed on door stops with sufficient depth and broad butt hinges should be specified.

Note: Check backset door latch requirements.

Location: Head and jambs of single and double, broad butt hinged doors or bulkhead applications.

Min/Max Gap: 8mm to 10mm (allow 13mm to 14mm for installation, refer to product dimensions).

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

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

Seal: RP308Si. Grey silicon rubber (SE).

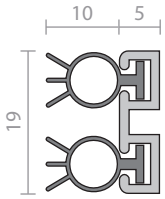
Sizes: Available in stock lengths.

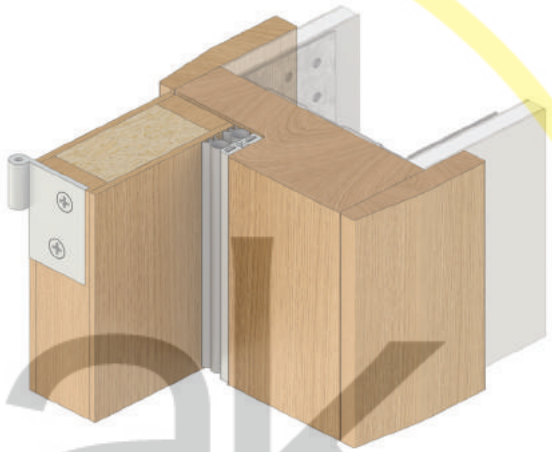
Approvals

Acoustic AUS/NZ: NCC Spec. F5.5.
UK/EU: Approved Document E. Rated to BS EN ISO 717-1.

Smoke AUS/NZ: NCC Spec. C3.4. NZ BC Compliance Doc C/AS1 6.19.2(b).
UK/EU: Approved Document B. Gasket flammability index 1 when tested to AS1530.2.

Energy NCC Pt. 3.12.3.3 & J3.4.





RP47Si

A heavy duty seal designed to replace the conventional door stop. The RP47Si is ideal for medium temperature smoke / fire door applications and has excellent acoustic qualities for heavy traffic areas. With concealed fixings and adjustable fastener slots to achieve an optimum seal, a space for low voltage cable management can be found behind a tamper proof cover strip. RP47Si can be mitred or butt jointed for a neat installation. Can be used on all four sides of the door to form a bulk head seal.

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 or bulk head applications.

Min/Max Gap: 0mm to 17mm.

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

Fixing: Concealed screw fix. Zinc plated, Tek self drilling screws (metal) supplied.

Seal: RP347Si. Black silicon rubber (SE).

Sizes: Available in door set sizes or stock lengths.

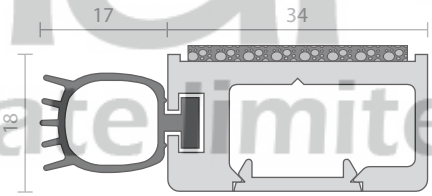
Approvals

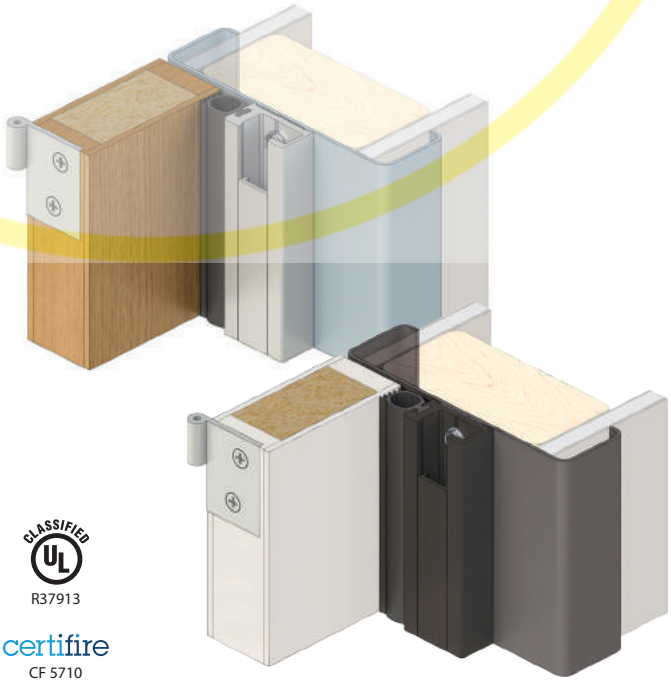
Acoustic AUS/NZ: NCC Spec. F5.5.
UK/EU: Approved Document E. Rated to BS EN ISO 717-1.

Fire AUS/NZ: NCC Spec. C3.4. NZ BC Compliance Doc C/AS1 6.19.2 & App C6.1.1.
UK/EU: Approved Document B. BS EN 1634-1.
FRL & FRR-/240/30. To be used on door frames with a 25mm stop. Gasket flammability index 1 when tested to AS1530.2.

Smoke NCC Spec. C3.4. AS1530.7 & BS EN 1634-3. Meets smoke leakage rates specified in AS6905 & EN 13501-2 "Sa", "Sm".

Energy NCC Pt. 3.12.3.3 & J3.4.





R37913

CF 5710

RP56

A PVC finned sweep seal designed to fit into a groove around the perimeter of a timber door or frame to reduce noise and air movement. This unobtrusive seal is discrete in appearance and does not restrict the doors operation.

The RP56 can be used in conjunction with Raven automatic door bottom seals and brush strip seals.

Note: Check latching requirements.

Location: Perimeter of internal timber doors or frame.

Min/Max Gap: 2mm to 4mm.

Fixing: Adhesive fix into a 10mm x 4mm groove.

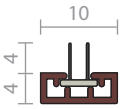
Seal: RP469. Black flexible PVC. Bronze rigid PVC holder.

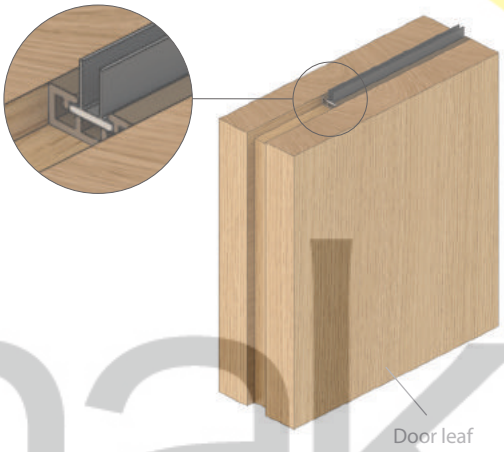
Sizes: Available in stock lengths.

Approvals

Fire AUS/NZ: NCC Spec. C3.4. AS1530.4 & AS/NZS 1905.1. NZ BC Compliance Doc. C/AS1 6.19.2(a) & App. C6.1.1.
UK/EU: Approved Document B. Tests above are similar to BS EN 1634-1 & BS 476 Pt. 20 & 22.
FRL & FRR-/60/30 and FD60. on door bottom only.

Energy NCC Pt. 3.12.3.3 & J3.4.





RP69

A woven pile sweep seal designed to fit into a groove around the perimeter of a timber door or frame to reduce air movement. This unobtrusive seal is discrete in appearance and does not restrict the doors operation.

The RP69 can be used in conjunction with Raven automatic door bottom seals and brush strip seals.

Note: Check latching requirements.

Location: Perimeter of internal timber doors or frame.

Min/Max Gap: 3mm to 4mm.

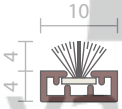
Fixing: Adhesive fix into a 10mm x 4mm groove.

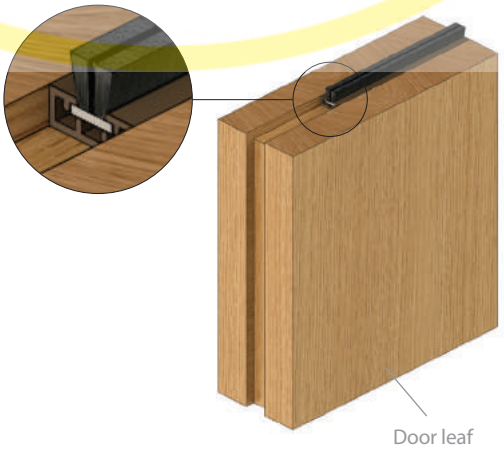
Seal: Bronze rigid PVC holder with black polypropylene pile with felt weather fins.

Sizes: Available in stock lengths.

Approvals

Energy NCC Pt. 3.12.3.3 & J3.4.





RP73

An extremely flexible co-extruded PVC sweep seal that fits into a saw kerf groove cut into the frame or door. It holds tight radii and compound curves when bent around a frame. It resists UV, ozone, mildew and colour change.

The RP73 can be used in conjunction with Raven automatic door bottom seals and brush strip seals.

Location: Perimeter of timber sliding doors, pivot doors and door frames.

Min/Max Gap: 6mm to 8mm.

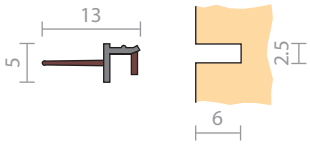
Fixing: Push-in locking fit into a 2.5mm x 6mm deep kerf groove.

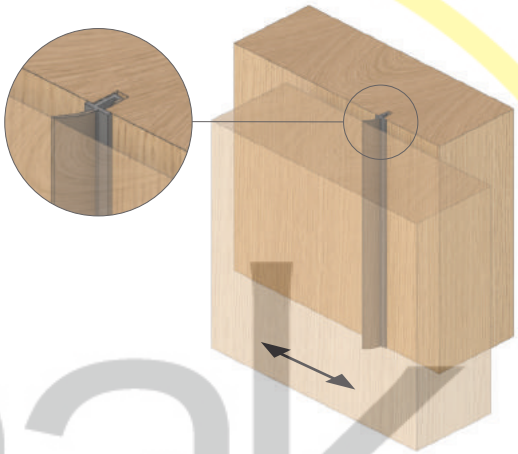
Seal: Brown rigid and flexible PVC.

Sizes: Coils of 1m increments up to 100m.

Approvals

Energy NCC Pt. 3.12.3.3 & J3.4.





RP78Si

An acoustic medium temperature smoke door frame seal designed for installation on door stops. Its aluminium carrier is sturdy and slotted for adjustment with concealed fixings. It is quick and easy to install around the jamb and head and can be fitted without removing the door. The RP78Si can be mitred or butt jointed for a neat finish.

Can be used in conjunction with the Raven RP8Si, RP16Si, RP35Si, RP38Si, RP99Si, RP126Si, RP127Si or RP128Si automatic door bottom seals.

Location: Head and jambs of single and double butt hinged doors.

Min/Max Gap: 0mm to 6mm.

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

Fixing: Concealed screw fix. Zinc plated, cross recess head S.T. screws, self drilling screws (metal) and cover strip supplied.

Seal: RP394Si. Grey, light grey or black silicon rubber (SE).

Sizes: Available in door set sizes or stock lengths.

Approvals

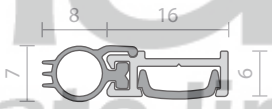
ANSI/BHMA A156.22.

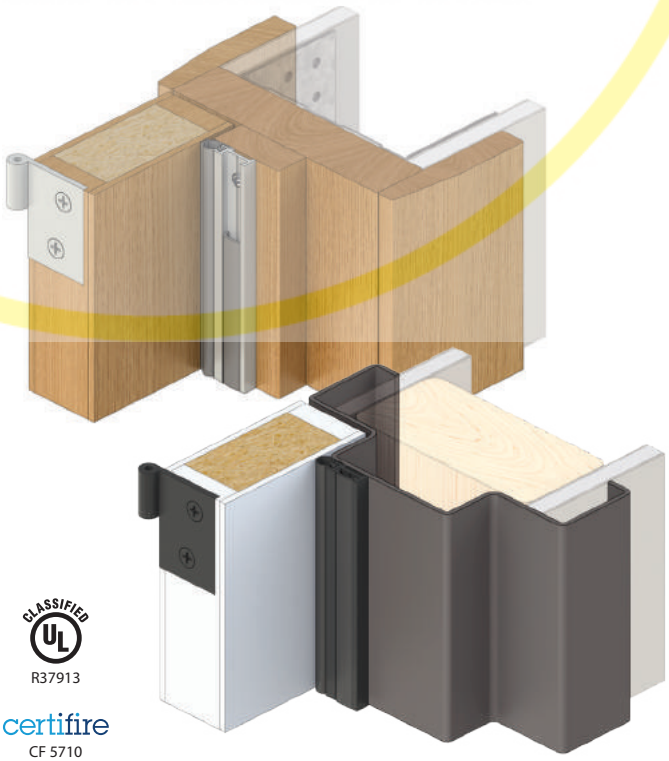
Acoustic AUS/NZ: NCC Spec. F5.5.
UK/EU: Approved Document E. Rated to BS EN ISO 717-1.

Fire AUS/NZ: NCC Spec. C3.4. AS1530.4 & AS/NZS 1905.1. NZ BC Compliance Doc. C/AS1 6.19.2 & App. C6.1.1.
UK/EU: Approved Document B. BS 476 Pt. 20 & 22 (similar to BS EN 1634-1).
FRL & FRR-/240/60 and FD240.
Gasket flammability index 1 when tested to AS1530.2.

Smoke NCC Spec. C3.4. AS1530.7 & BS EN 1634-3. Meets smoke leakage rates specified in AS6905 & EN 13501-2 "Sa", "Sm".

Energy NCC Pt. 3.12.3.3 & J3.4.





CLASSIFIED UL R37913

certifire CF 5710

RP78HSi

This medium temperature smoke seal is designed for clean room and health care facilities. RP78HSi has an easy wipe clean design where the smooth sealing gasket also contains an antimicrobial additive for maximum protection against surface bacteria.

For installation on door stops. Its aluminium carrier is sturdy and slotted for adjustment with concealed fixings. It is quick and easy to install around the jamb and head and can be fitted without removing the door. The RP78Si can be mitred or butt jointed for a neat finish.

Can be used in conjunction with the Raven RP8Si, RP16Si, RP35Si, RP38Si, RP99Si, RP126Si, RP127Si or RP128Si automatic door bottom seals.

Location: Head and jambs of single and double butt hinged doors.

Min/Max Gap: 0mm to 6mm.

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

Fixing: Concealed screw fix. Zinc plated, cross recess head S.T. screws, self drilling screws (metal) and cover strip supplied.

Seal: RP394HSi. Grey or light grey silicon rubber (SE).

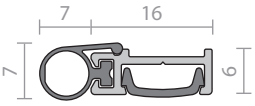
Sizes: Available in door set sizes.

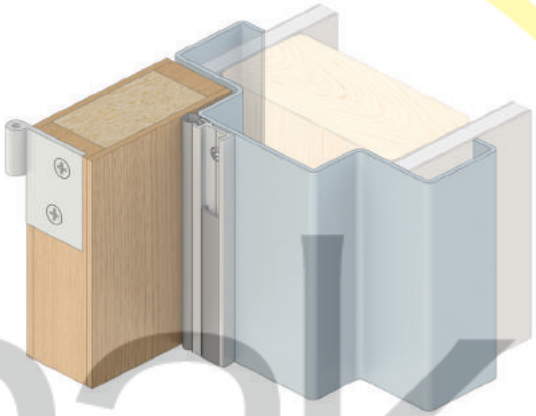
Approvals

Fire AUS/NZ: NCC Spec. C3.4. AS1530.4 & AS/NZS 1905.1. NZ BC Compliance Doc. C/AS1 6.19.2 & App. C6.1.1.
UK/EU: Approved Document B. BS 476 Pt. 20 & 22 (similar to BS EN 1634-1).
FRL & FRR-/240/30 and FD240. Gasket flammability index 1 when tested to AS1530.2.

Smoke NCC Spec. C3.4. AS1530.7 & BS EN 1634-3. Meets smoke leakage rates specified in AS6905 & EN 13501-2 "Sa", "Sm".

Energy NCC Pt. 3.12.3.3 & J3.4.





certifire
CF 5710

RP84Si

This medium temperature smoke seal is designed specifically for clean room and health care facilities. RP84Si has an easy clean smooth bulb which also contains an antimicrobial additive for maximum protection against surface bacteria. RP84Si significantly reduces sound transmission and helps prevent the movement of airborne contaminates allowing for controlled air ventilation.

The RP84Si is ideal for use in conjunction with Raven door bottom seals and astragals.

Location: Head and jambs of single and double butt hinged doors.

Min/Max Gap: 0mm to 7mm.

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

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

Seal: RP384Si. Black silicon rubber (SE).

Sizes: Available in door set sizes or stock lengths.

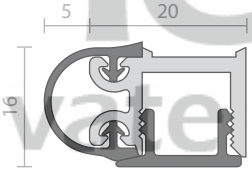
Approvals

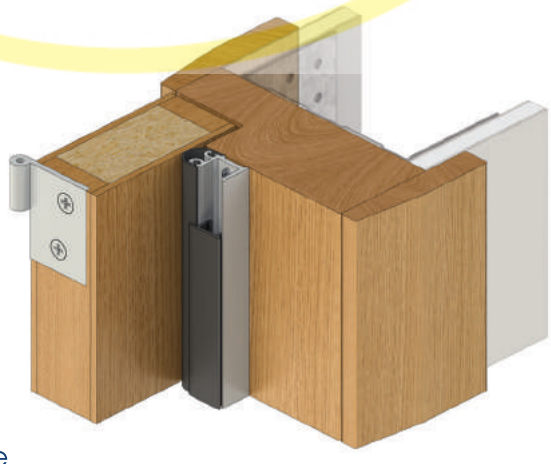
Acoustic AUS/NZ: NCC Spec. F5.5.
UK/EU: Approved Document E. Rated to BS EN ISO 717-1.

Fire
FRL & FRR-/240/30 and FD240. Gasket flammability index 1 when tested to AS1530.2.

Smoke NCC Spec. C3.4. AS1530.7 & BS EN 1634-3. Meets smoke leakage rates specified in AS6905 & EN 13501-2 "Sa", "Sm".

Energy NCC Pt. 3.12.3.3 & J3.4.





CLASSIFIED UL
R37913

certifire
CF 5710

RP85

A refrigeration type vinyl magnetic strip in an anodised aluminium housing with concealed fixings. RP85 provides a tight seal for steel clad doors and jambs and may be used as a stop. For timber doors, a thin steel strip can be attached to the door face. The magnetic strip has sufficient closing strength that latches may not be required.

Can be used in conjunction with Raven door bottom seals and astragals.

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 4mm (user determined).

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

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

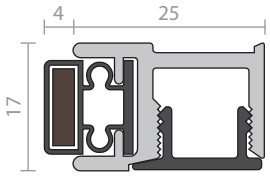
Seal: Black PVC.

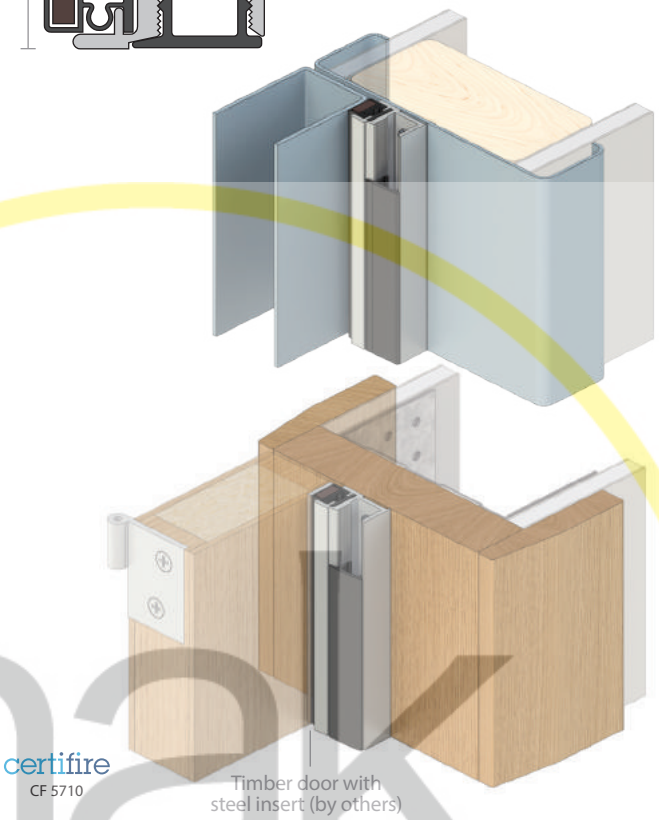
Sizes: Available in stock lengths.

Approvals

Acoustic AUS/NZ: NCC Spec. F5.5.
UK/EU: Approved Document E. Rated to BS EN ISO 717-1.

Energy NCC Pt. 3.12.3.3 & J3.4.





certifire
CF 5710

Timber door with steel insert (by others)

RP87Si

RP87Si 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 RP87Si utilises independently adjustable screws to achieve up to 6mm sealing adjustment for maximum noise control. The silicon rubber 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 6mm.

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

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

Seal: RP310Si. Black silicon rubber (SE).

Sizes: Available in door set sizes or stock lengths.

Approvals

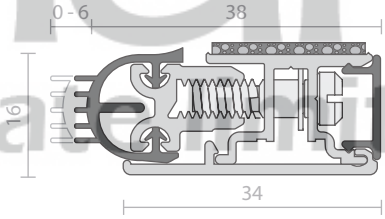
Acoustic AUS/NZ: NCC Spec. F5.5.
UK/EU: Approved Document E. Rated to BS EN ISO 717-1.

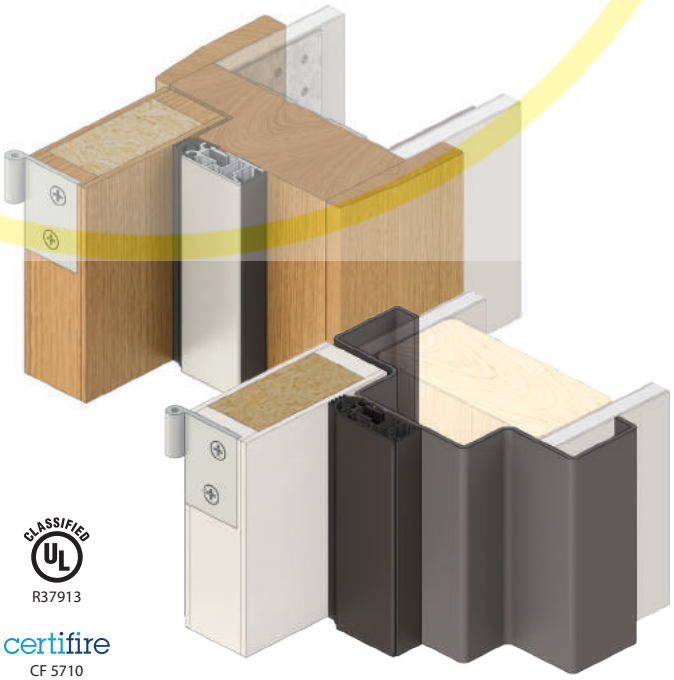
Fire AUS/NZ: NCC Spec. C3.4. AS1530.4 & AS/NZS 1905.1. NZ BC Compliance Doc. C/AS1 6.19.2 & App. C6.1.1.
UK/EU: Approved Document B. BS EN 1634-1.
FRL & FRR-/240/30 and FD240.
Gasket flammability index 1 when tested to AS1530.2.

Smoke NCC Spec. C3.4. AS1530.7 & BS EN 1634-3. Meets smoke leakage rates specified in AS6905 & EN 13501-2 "Sa", "Sm".

Energy NCC Pt. 3.12.3.3 & J3.4.

Registered Design.





CLASSIFIED UL
R37913

certifire
CF 5710

RP87HSi

Designed for clean room and health care facilities, the RP87HSi has an easy wipe clean design where the smooth silicon sealing gasket also contains an antimicrobial additive for maximum protection against surface bacteria.

RP87HSi is an effective door stop seal for noise, light and medium temperature 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 RP87HSi utilises independently adjustable screws to achieve up to 6mm sealing adjustment for maximum noise control. The silicon 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 6mm.

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

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

Seal: RP384Si. Black silicon rubber (SE).

Sizes: Available in door set sizes.

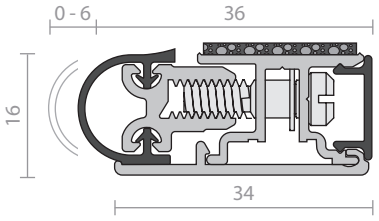
Approvals

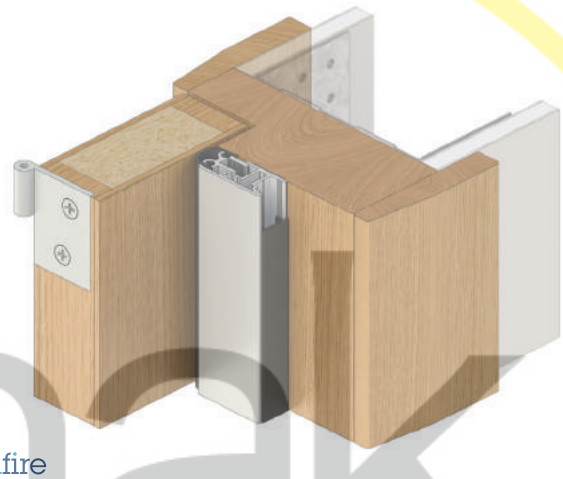
Acoustic AUS/NZ: NCC Spec. F5.5.
UK/EU: Approved Document E. Rated to BS EN ISO 717-1.

Fire AUS/NZ: NCC Spec. C3.4. AS1530.4 & AS/NZS 1905.1. NZ BC Compliance Doc. C/AS1 6.19.2 & App. C6.1.1.
UK/EU: Approved Document B. FRL & FRR-/240/30 and FD240. Gasket flammability index 1 when tested to AS1530.2.

Smoke NCC Spec. C3.4. AS1530.7 & BS EN 1634-3. Meets smoke leakage rates specified in AS6905 & EN 13501-2 "Sa", "Sm".

Energy NCC Pt. 3.12.3.3 & J3.4.





certifire
CF 5710

RP93Si

A weather and acoustic seal suitable for plain or rebated frames. RP93Si is quick and easy to install (mitre joint only) to the head and jambs without removing the door. Slotted for installation adjustment, the soft silicon bulb accommodates a tighter seal and, with a tamper proof cover strip, provides a fit and forget feature.

Note: If fixing to rebated frames of single doors, specify a long backset door latch. The tamper proof aluminium cover strip is not recommended for removal once installed. Refer to RP10Si or RP78Si for this feature.

Location: Head and jambs of single and double butt hinged doors.

Min/Max Gap: 0mm to 6mm.

Finish: Satin clear (silver) anodised aluminium (15µm) or paint at extra cost (cover strip only).

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

Seal: RP393Si. Black silicon rubber (SE).

Sizes: Available in door set sizes or stock lengths.

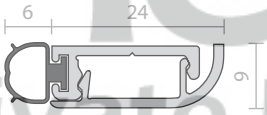
Approvals

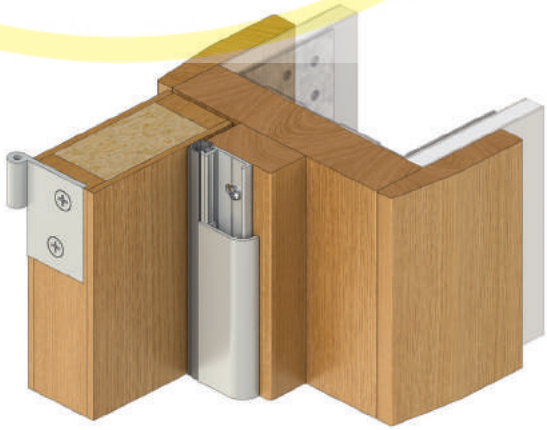
Acoustic AUS/NZ: NCC Spec. F5.5.
UK/EU: Approved Document E. Rated to BS EN ISO 717-1.

Fire AUS/NZ: NCC Spec. C3.4. AS1530.4 & AS/NZS 1905.1. NZ BC Compliance Doc. C/AS1 6.19.2 & App. C6.1.1.
UK/EU: Approved Document B. BS 476 Pt. 20 & 22 (similar to BS EN 1634-1).
FRL & FRR-/240/30 and FD240. Gasket flammability index 1 when tested to AS1530.2.

Smoke NCC Spec. C3.4. AS1530.7 & BS EN 1634-3. Meets smoke leakage rates specified in AS6905 & EN 13501-2 "Sa", "Sm".

Energy NCC Pt. 3.12.3.3 & J3.4.





CLASSIFIED UL
R37913

certifire
CF 5710

RP94Si

A weather and acoustic seal, suitable for rebated frames. RP94Si is quick and easy to install, either mitred or butt jointed to the head and jambs without removing the door. Slotted for installation adjustment, the soft silicon bulb accommodates a tighter seal and with a tamper proof cover strip, provides a fit and forget feature.

Can be used in conjunction with Raven door bottom seals, astragals and threshold plates.

Note: The tamper proof aluminium cover strip is not recommended for removal once installed. Refer to RP78Si or RP10Si for this feature.

Location: Head and jambs of single and double butt hinged doors.

Min/Max Gap: 0mm to 6mm.

Finish: Satin clear (silver), bronze or black anodised aluminium (15µm) or paint at extra cost (cover strip only).

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

Seal: RP394Si. Grey or black silicon rubber (SE).

Sizes: Available in door set sizes or stock lengths.

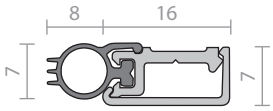
Approvals

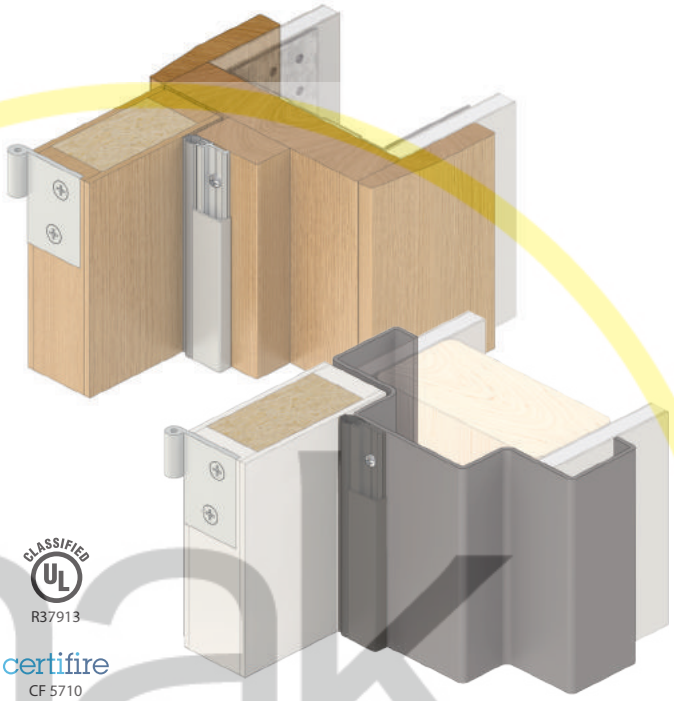
Acoustic AUS/NZ: NCC Spec. F5.5.
UK/EU: Approved Document E. Rated to BS EN ISO 717-1.

Fire AUS/NZ: NCC Spec. C3.4. AS1530.4 & AS/NZS 1905.1. NZ BC Compliance Doc. C/AS1 6.19.2 & App. C6.1.1.
UK/EU: Approved Document B. BS 476 Pt. 20 & 22 (similar to BS EN 1634-1).
FRL & FRR-/240/30 and FD240.
Gasket flammability index 1 when tested to AS1530.2.

Smoke NCC Spec. C3.4. AS1530.7 & BS EN 1634-3. Meets smoke leakage rates specified in AS6905 & EN 13501-2 "Sa", "Sm".

Energy NCC Pt. 3.12.3.3 & J3.4.





R37913

CF 5710

RP118Si

A smoke, weather and acoustic door frame seal suitable for outward opening butt hinged doors. Designed to accommodate a latch engagement for suitable panic exit devices at the head of the door. The RP118Si used in conjunction with the RP117Si threshold plate seal provides a bulkhead seal around the door with a top and bottom latch engagement.

Quick and easy to install with a mitre joint without removing the door, the RP118Si is slotted for adjustment and has concealed fixings.

Location: Head and jambs of single and double butt hinged doors.

Min/Max Gap: 0mm to 10mm.

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

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

Seal: RP308Si. Grey silicon rubber (SE).

Sizes: Available in stock lengths.

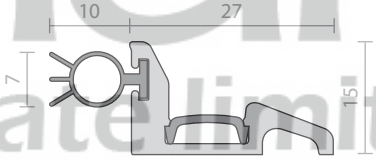
Approvals

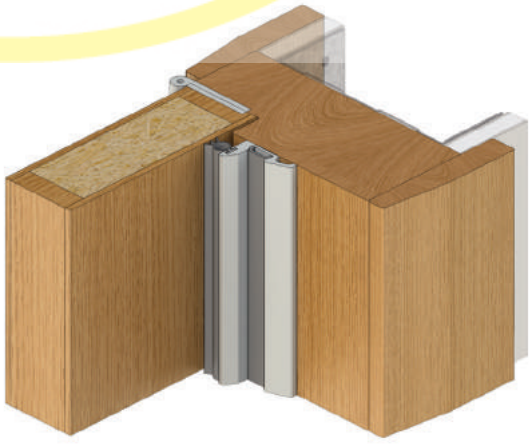
Acoustic AUS/NZ: NCC Spec. F5.5.
UK/EU: Approved Document E. Rated to BS EN ISO 717-1.

Smoke AUS/NZ: NCC Spec. C3.4. NZ BC Compliance Doc. C/AS1 6.19.2 & App. C6.1.1.
UK/EU: Approved Document B.

Gasket flammability index 1 when tested to AS1530.2.

Energy NCC Pt. 3.12.3.3 & J3.4.





R37913

CF 5710

RP100, RP120, RP150

Delta Seal™

RP100, RP120 and RP150 are co-extruded PVC acoustic and smoke seals. Discreetly located in the protected corners of rebated timber or steel door and window frames. RP120 is suitable for new and retrofit applications.

Can be used in conjunction with Raven door bottom seals and astragals and threshold plates.

Location: Around rebated frames of single and double butt hinged doors and windows.

Min/Max Gap: 3mm to 5.5mm.

Fixing: Aggressive self adhesive backing tape on both sides of the carrier.
Note: Contact surface must be clean, smooth and if painted, well cured. Self adhesive seals will not adhere to oiled or alkyd finishes or to easy clean wash and wear paint surfaces.

Seal:
RP120 Black, brown or white co-extruded rigid and flexible flame retardant PVC.
RP100, RP150 Black co-extruded rigid and flexible flame retardant PVC.

Sizes: Available in door set sizes. 7.2m pack (6 x 1.2m).

Approvals

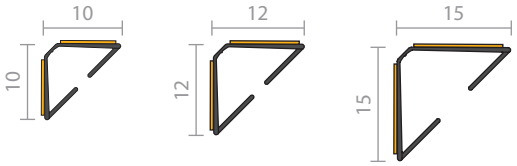
Acoustic AUS/NZ: NCC Spec. F5.5.
UK/EU: Approved Document E. Rated to BS EN ISO 717-1.

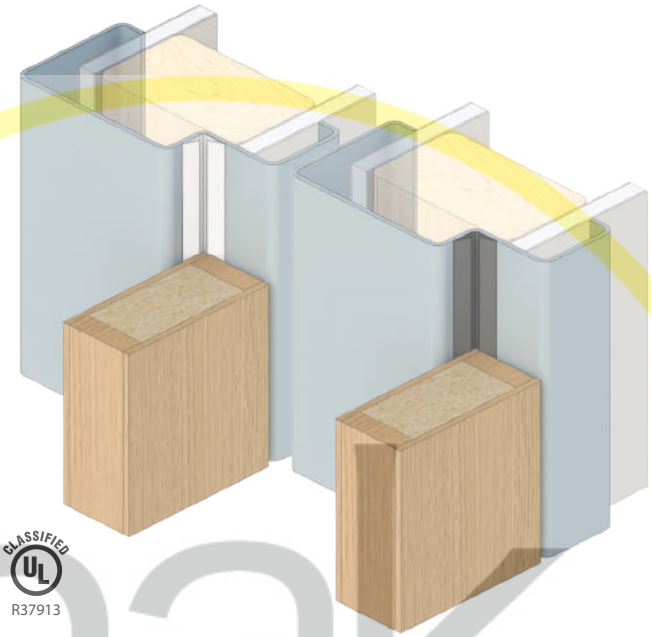
Fire AUS/NZ: NCC Spec. C3.4. AS1530.4 & AS/NZS 1905.1. NZ BC Compliance Doc. C/AS1 6.19.2 & App. C6.1.1.
UK/EU: Approved Document B. (Tests above are similar to BS EN 1634-1 & BS 476 Pt. 20 & 22).
FRL & FRR-/240/30 and FD240.

Smoke NCC Spec. C3.4. AS1530.7 & BS EN 1634-3. Meets smoke leakage rates specified in AS6905 & EN 13501-2 "Sa", "Sm".

Energy NCC Pt. 3.12.3.3 & J3.4.

RP100 **RP120** **RP150**





CLASSIFIED UL R37913

certifire CF 5710

RP124

The RP124 is the Delta Seal Plus™, a rigid and flexible co-polymer acoustic smoke seal with multiple fins and quick and easy self adhesive installation. The RP124 is located in the protected corners of rebated timber or steel frame doors and is suitable for new and retrofit applications.

Can be used in conjunction with Raven door bottom seals and astragals and threshold plates.

Location: Around rebated frames of single and double butt hinged doors.

Min/Max Gap: 3mm to 5.5mm.

Fixing: Aggressive self adhesive backing tape on both sides of the carrier.

Note: Contact surface must be clean, smooth and if painted, well cured. Self adhesive seals will not adhere to oiled or alkyd finishes or to easy clean wash and wear paint surfaces.

Seal: Black co-extruded rigid and flexible flame retardant PVC.

Sizes: Available in door set sizes.

Approvals

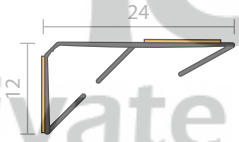
Acoustic AUS/NZ: NCC Spec. F5.5.
UK/EU: Approved Document E. Rated to BS EN ISO 717-1.

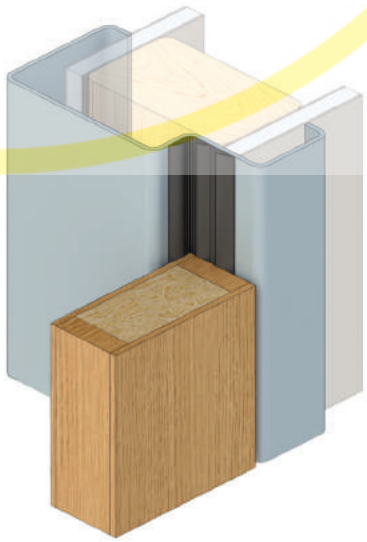
Fire AUS/NZ: NCC Spec. C3.4. AS1530.4 & AS/NZS 1905.1. NZ BC Compliance Doc. C/AS1 6.19.2 & App. C6.1.1.
UK/EU: Approved Document B. BS 476 Pt. 20 & 22 (similar to BS EN 1634-1).
FRL & FRR-/120/30 and FD120.

Smoke NCC Spec. C3.4. AS1530.7 & BS EN 1634-3. Meets smoke leakage rates specified in AS6905 & EN 13501-2 "Sa", "Sm".

Energy NCC Pt. 3.12.3.3 & J3.4.

Registered Design.





CLASSIFIED UL R37913

certifire CF 5710

RP130Si

A heavy duty medium temperature smoke seal designed to be fitted to the door head & jamb reveal of pivot door frames. May also be installed to the door stile edges and to one leaf of plain meeting stiles of timber double pivot doors. The aluminium body of the seal can be checked out or drilled to accommodate pivot hardware and latch ware at the meeting stile.

Location: Around frames of single and double acting pivot doors and the stiles of timber doors.

Min/Max Gap: 14mm to 18mm.

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

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

Seal: RP3129Si. Fins: Light grey silicon rubber (SE). Cover strip: Light grey PVC.

Sizes: Available in door set sizes or stock lengths.

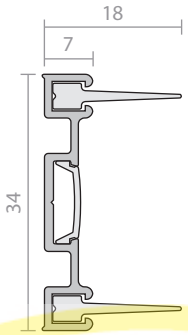
Approvals

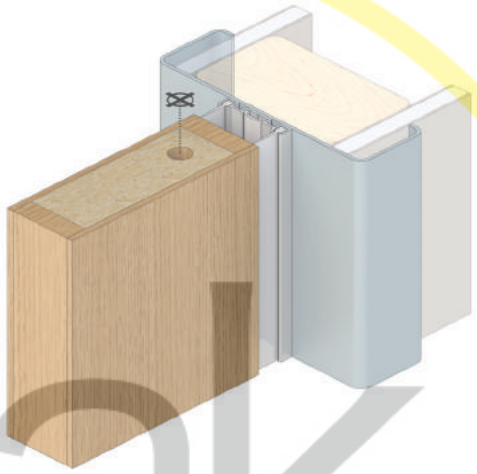
Fire Gasket flammability index 1 when tested to AS1530.2.

Smoke NCC Spec. C3.4. AS1530.7 & BS EN 1634-3. Meets smoke leakage rates specified in AS6905 & EN 13501-2 "Sa", "Sm".

Energy NCC Pt. 3.12.3.3 & J3.4.

Registered Design.





RP134

The RP134 Delta Kerf Seal™ is a co-extruded PVC acoustic and smoke seal. Discreetly located in the protected corners of rebated timber doors and window frames. RP134 is suitable for new and retrofit applications.

Location: Around rebated frames of single and double butt hinged doors and windows.

Min/Max Gap: 3mm to 5.5mm.

Fixing: 3mm x 6mm deep kerf groove, push-in locking fit.

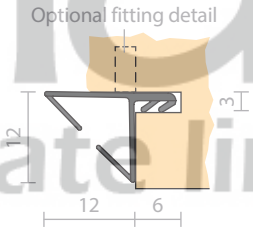
Seal: Black co-extruded rigid and flexible flame retardant PVC.

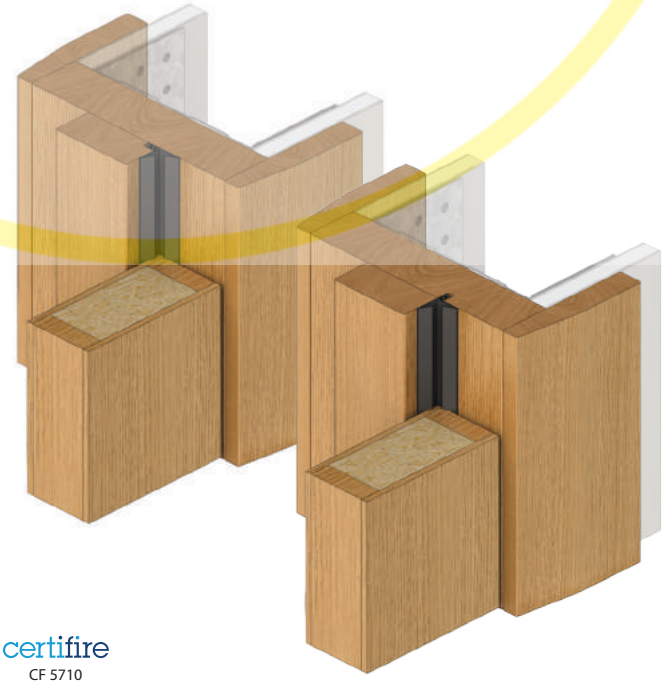
Sizes: Available in door set sizes or stock lengths.

Approvals

Energy NCC Pt. 3.12.3.3 & J3.4.

Registered Design.





certifire
CF 5710

RP670

A flame retardant TPE rubber compression seal ideal for smoke doors. The RP670 has a high resistance to permanent set (memory), is UV resistant and has an increased life cycle compared to traditional plastic covered foam strips.

Note: The seal only requires normal door closing forces.

Location: Door edges or door and window frames (user determined).

Min/Max Gap: Compression 1mm to 3mm.

Fixing: Push in locking fit into a 2.7mm x 6mm deep kerf groove.

Seal: Black TPE.

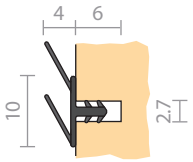
Sizes: Available in door set sizes or stock lengths.

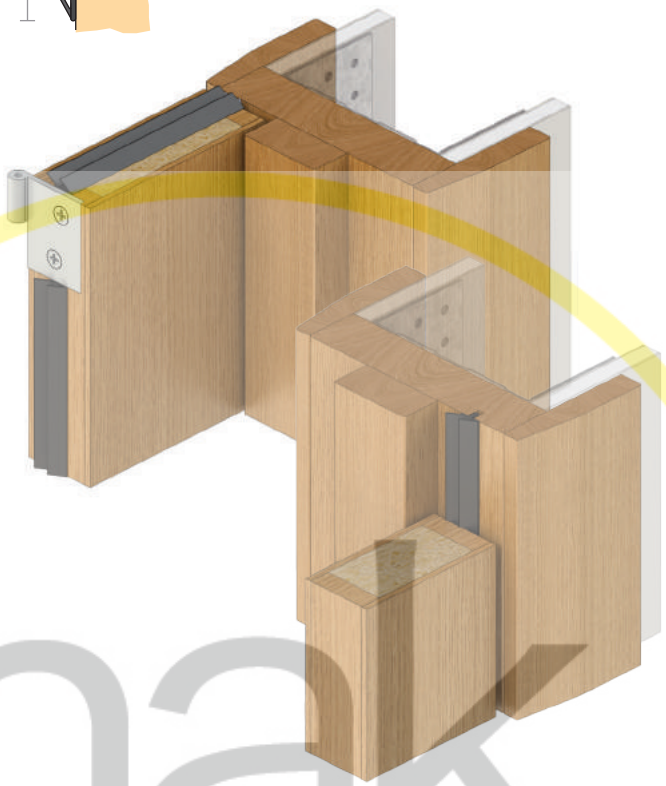
Approvals

Fire Flammability rating ≤ 5 when tested to AS1530.2.

Smoke NCC Spec. C3.4. AS1530.7 & BS EN 1634-3. Meets smoke leakage rates specified in AS6905 & EN 13501-2 "Sa", "Sm".

Energy NCC Pt. 3.12.3.3 & J3.4.





RP700

A self adhesive silicon compression acoustic smoke seal, that is discreetly located in the protected corners of rebated metal, PVC or timber door and window frames. Suitable for new and retrofit applications.

Location: Metal, PVC or timber door and window frames where dimensions suit.

Min/Max Gap: 4mm to 8mm.

Finish: Brown or black.

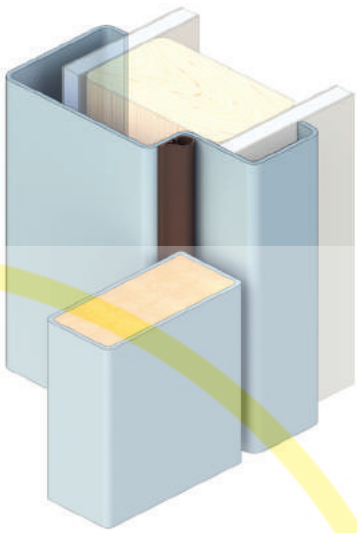
Fixing: Self adhesive. *Note: Contact surface must be clean, smooth and if painted, well cured.*

Sizes: 6m reel, 50m reel.

Approvals

Weather AUS/NZ: NCC various sections. AS2047, AS4055, AS4420 Pt. 0 to 5 & AS/NZS 1170.
UK/EU: Approved Document L1 & L2. Tests above are similar to BS 5368 & BS 7386.

Energy NCC Pt. 3.12.3.3 & J3.4.



RP710

A self adhesive silicon compression acoustic smoke seal, that is discreetly located in the protected corners of rebated metal, PVC or timber door and window frames. Suitable for new and retrofit applications.

Location: Metal, PVC or timber door and window frames where dimensions suit.

Min/Max Gap: 4mm to 6mm.

Finish: Brown or black.

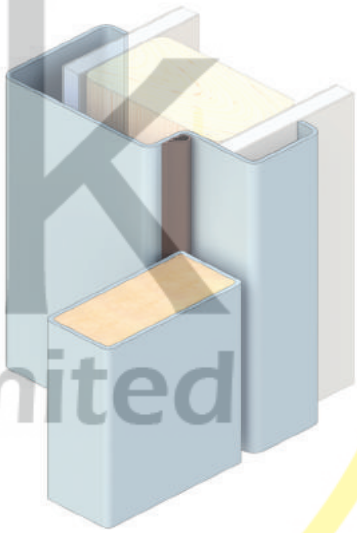
Fixing: Self adhesive. *Note: Contact surface must be clean, smooth and if painted, well cured.*

Sizes: 6m reel, 50m reel.

Approvals

Weather AUS/NZ: NCC various sections. AS2047, AS4055, AS4420 Pt. 0 to 5 & AS/NZS 1170.
UK/EU: Approved Document L1 & L2. Tests above are similar to BS 5368 & BS 7386.

Energy NCC Pt. 3.12.3.3 & J3.4.



RP720

A self adhesive silicon compression acoustic smoke seal, that is discreetly located in the protected corners of rebated metal, PVC or timber door and window frames. Suitable for new and retrofit applications.

Location: Metal, PVC or timber door and window frames where dimensions suit.

Min/Max Gap: 3mm to 4mm.

Finish: Brown or black.

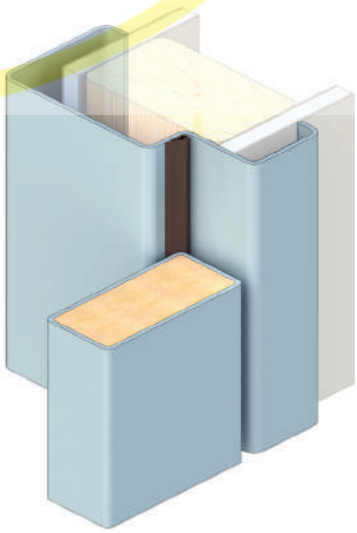
Fixing: Self adhesive. *Note: Contact surface must be clean, smooth and if painted, well cured.*

Sizes: 6m reel, 50m reel.

Approvals

Weather AUS/NZ: NCC various sections. AS2047, AS4055, AS4420 Pt. 0 to 5 & AS/NZS 1170.
UK/EU: Approved Document L1 & L2. Tests above are similar to BS 5368 & BS 7386.

Energy NCC Pt. 3.12.3.3 & J3.4.



Astragals

Meeting Stile Seals

Astragal is a term used for the seal that seals the central join between two swinging doors, the join being known as the 'meeting stile'. A number of extra problems have to be faced when sealing a meeting stile. These include whether or not the seal will interfere with the centre latch, door closers, flush bolts and bottom seals.

RP16Si

RP16Si is an acoustic, smoke astragal. Its proven design is effective in sealing the meeting stiles of plain or rebated double doors. Its aluminium trim neatly conceals the sealing portion of the seal and provides a secure weatherproof rebate stop. If necessary, its aluminium fixing leg can be checked out to allow for locks and latches.

For maximum acoustic performance, specify two seals, i.e. one for each door leaf. (Minimum door thickness subject to centre latch and dimensions of morticed door bottom seals).

RP16Si is used where one door leaf is active. For smoke door magnetic hold open applications such as hospital corridors, sequence select door closers are required.

Location: Meeting stiles of double butt hinged doors.

Min/Max Gap: 2.5mm to 8mm.

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

Fixing: Screw fix. Zinc plated, cross recess head CSK S.T. screws supplied. Can be rebated or surface mounted. Fixing holes are pre-drilled

Seal: RP316Si. Grey or black silicon rubber (SE).

Sizes: Available in stock lengths.

Approvals

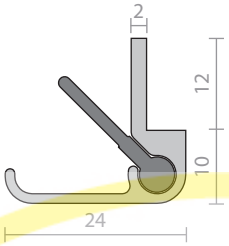
ANSI/BHMA A156.22

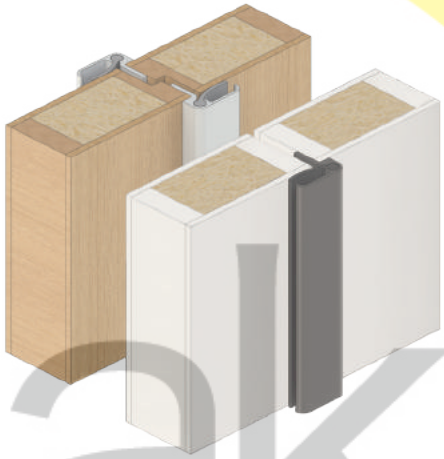
Acoustic AUS/NZ: NCC Spec. F5.5.
UK/EU: Approved Document E. Rated to BS EN ISO 717-1.

Fire Gasket flammability index 1 when tested to AS1530.2.

Smoke NCC Spec. C3.4. AS1530.7 & BS EN 1634-3. Meets smoke leakage rates specified in AS6905 & EN 13501-2 "Sa", "Sm".

Energy NCC Pt. 3.12.3.3 & J3.4.





certifire
CF 5710

RP37

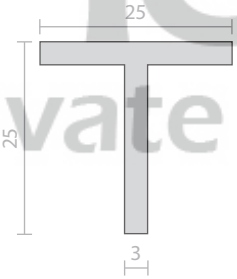
A simple heavy duty 'T' section to provide security for meeting stiles.

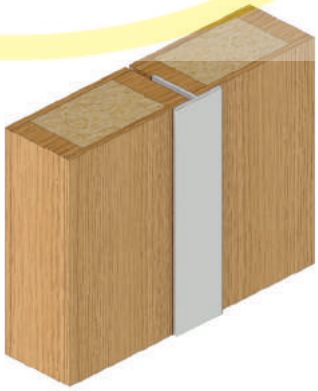
Location: Meeting stiles of doors.

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

Fixing: Screw fix. Zinc plated, cross recess head CSK S.T. screws supplied. Fixing holes are pre-drilled.

Sizes: Available in stock lengths.





RP71

An astragal seal designed for plain or rebated meeting stiles of timber double doors where a centre latch bolt may be required or, where both doors are active. The unique quiet fin of the RP71 is effective in acoustic and weather applications. Two RP71 seals are installed on to the one door stile which allows space for a latch between the two seals.

The legs of the seals can be checked out to accommodate the latch bolt front plate providing a continuous seal.

Note: Minimum door thickness subject to centre latch and dimensions of morticed door bottom seals.

Location: Meeting stiles of double butt hinged and centre pivot double acting doors.

Min/Max Gap: 3mm to 4mm.

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

Fixing: Screw fix. Colour matched zinc plated, cross recess head CSK S.T. screws supplied. Fixing holes are pre-drilled and countersunk.

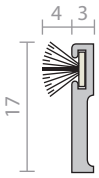
Seal: Black polypropylene pile with felt weather fins.

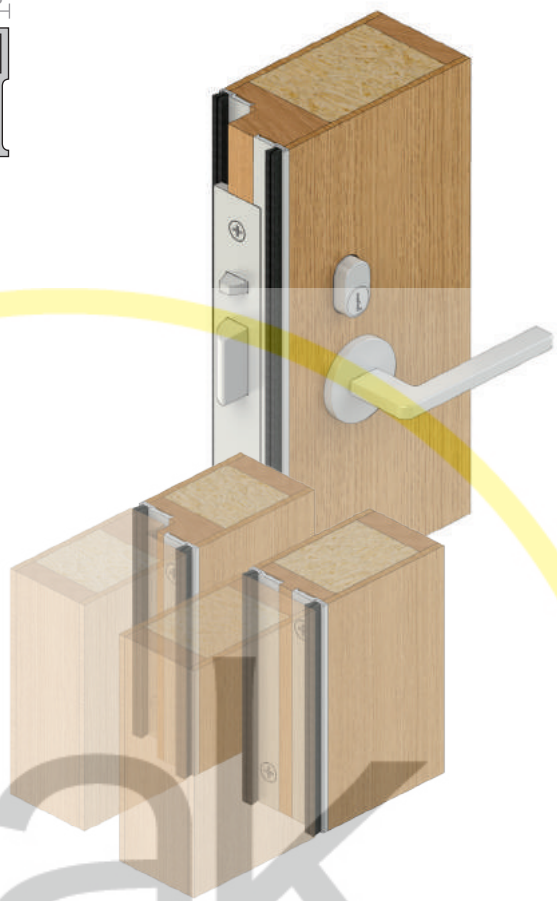
Sizes: Available in stock lengths.

Approvals

Acoustic AUS/NZ: NCC Spec. F5.5.
UK/EU: Approved Document E. Rated to BS EN ISO 717-1.

Energy NCC Pt. 3.12.3.3 & J3.4.





RP71Si

A medium temperature smoke astragal seal designed for plain or rebated meeting stiles of timber double doors where a centre latch bolt may be required or, where both doors are active. The seal is achieved by a pair of silicon fins. Two RP71Si seals are installed on to the one door stile which allows space for a latch between the two seals.

The legs of the seals can be checked out to accommodate the latch bolt front plate providing a continuous seal.

Note: Minimum door thickness subject to centre latch and dimensions of morticed door bottom seals.

Location: Meeting stiles of double butt hinged and centre pivot double acting doors.

Min/Max Gap: 3mm to 5mm.

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

Fixing: Screw fix. Colour matched zinc plated, cross recess head CSK S.T. screws supplied. Fixing holes are pre-drilled and countersunk.

Seal: RP371Si. Grey or black silicon rubber (SE).

Sizes: Available in stock lengths.

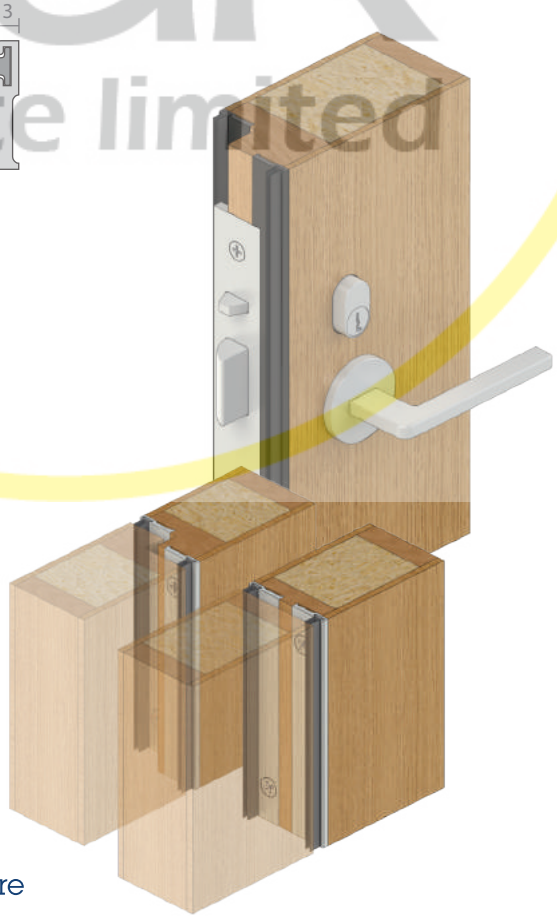
Approvals

Acoustic AUS/NZ: NCC Spec. F5.5.
UK/EU: Approved Document E. Rated to BS EN ISO 717-1.

Fire Gasket flammability index 1 when tested to AS1530.2.

Smoke NCC Spec. C3.4. AS1530.7 & BS EN 1634-3. Meets smoke leakage rates specified in AS6905 & EN 13501-2 "Sa", "Sm".

Energy NCC Pt. 3.12.3.3 & J3.4.



certifire
CF 5710

Astragals

Meeting Stile Seals for Frameless Glass

RP42, RP103, RP104

Clear polycarbonate astragal and perimeter seals specifically designed for frameless glass doors. The woven pile sealing strip is combined with a weather fin to form and effective weather and energy seal.

Use in conjunction with Raven brush strip door bottom seals RP2b, RP74 and threshold plates.

Location:
RP42 Meeting stiles of 15mm thick frameless glass doors.
RP103 Meeting stiles of 10mm thick frameless glass doors.
RP104 Meeting stiles of 12mm thick frameless glass doors.

Min/Max Gap: 7mm to 8mm (prior to installation).

Fixing: Self adhesive. *Note: Contact surface must be clean, smooth and if painted, well cured. Self adhesive seals will not adhere to oiled or alkyd finishes or to easy clean wash and wear paint surfaces.*

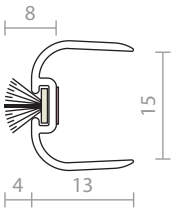
Seal: Clear high impact UV stabilised polycarbonate body with black polypropylene pile with felt weather fins.

Sizes: 3000mm.

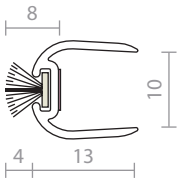
Approvals

Energy NCC Pt. 3.12.3.3 & J3.4.

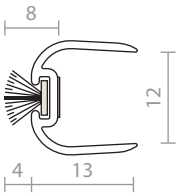
RP42

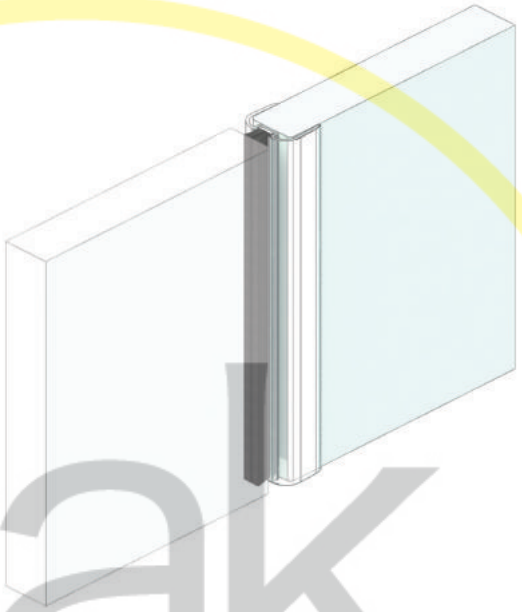


RP103



RP104





RP79, RP79Si, RP79H, RP88

Aluminium astragal seals designed for frameless glass doors. The woven pile sealing strip in RP79 and RP88 is combined with a weather fin to form an effective weather and energy seal. RP79Si utilises silicon rubber fins for medium temperature smoke door applications.

Use in conjunction with Raven brush strip door bottom seals RP2b, RP74 and threshold plates.

Location:
RP79, RP79Si, RP79H Meeting stiles of 12mm thick frameless glass doors.
RP88 Meeting stiles of 10mm thick frameless glass doors.

Min/Max Gap:
RP79, RP79Si, RP88 8mm to 9mm (prior to installation).
RP79H 8mm to 12mm (prior to installation).

Finish:
RP79, RP79H, RP88 Satin clear (silver) anodised aluminium (15µm).
RP79Si Black anodised aluminium (15µm).

Fixing: Self adhesive. *Note: Contact surface must be clean, smooth and if painted, well cured. Self adhesive seals will not adhere to oiled or alkyd finishes or to easy clean wash and wear paint surfaces.*

Seal:
RP79, RP88 Black polypropylene pile with felt weather fins.
RP79Si RP371Si. Grey or black silicon rubber (SE).
RP79H RP640. Black TPE.

Sizes: Available in stock lengths.

Approvals

Energy NCC Pt. 3.12.3.3 & J3.4.

RP79Si

Fire Gasket flammability index **1** when tested to AS1530.2.

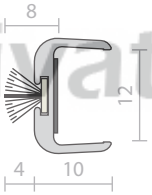
Smoke NCC Spec. C3.4 for smoke doors.

RP79H

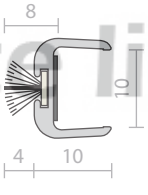
Fire Gasket flammability index ≤ 5 when tested to AS1530.2.

Smoke NCC Spec. C3.4 for smoke doors.

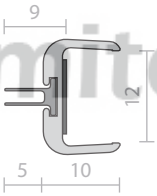
RP79



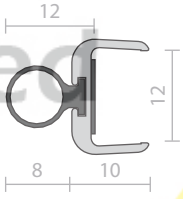
RP88

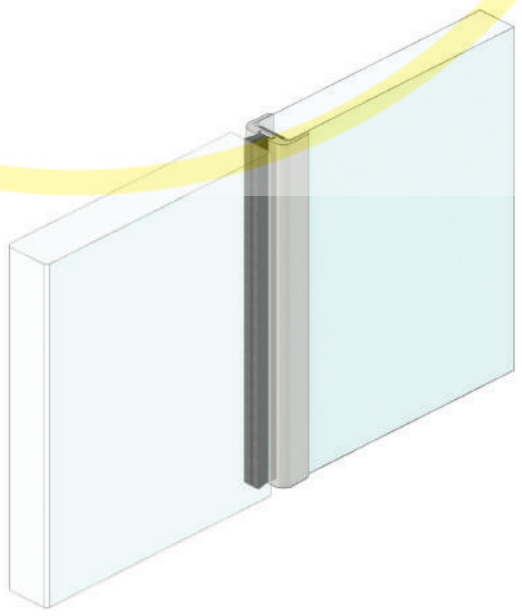


RP79Si



RP79H





Astragals

Meeting Stile Seals for Glass Sliding Doors

RP43Si

A medium temperature smoke seal that is designed to suit automatic sliding door operated, frameless glass and metal frame doors.

Comprising of two sealing sections, the RP43Si is fitted in an overlap configuration to effectively seal the vertical gap between the fixed and active sliding door leaf.

Can be used in conjunction with Raven brush strip door bottom seal RP74F, astragal seals RP79H, RP79Si and threshold plates.

Location: Automatic sliding door operated, frameless glass & metal frame doors

Min/Max Gap: 30mm to 50mm (prior to installation).

Finish: Satin clear (silver) anodised aluminium 15µm.

Fixing: Self adhesive.

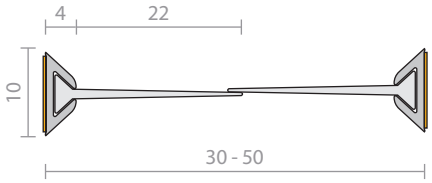
Seal: RP343Si. Light grey silicon rubber (SE).

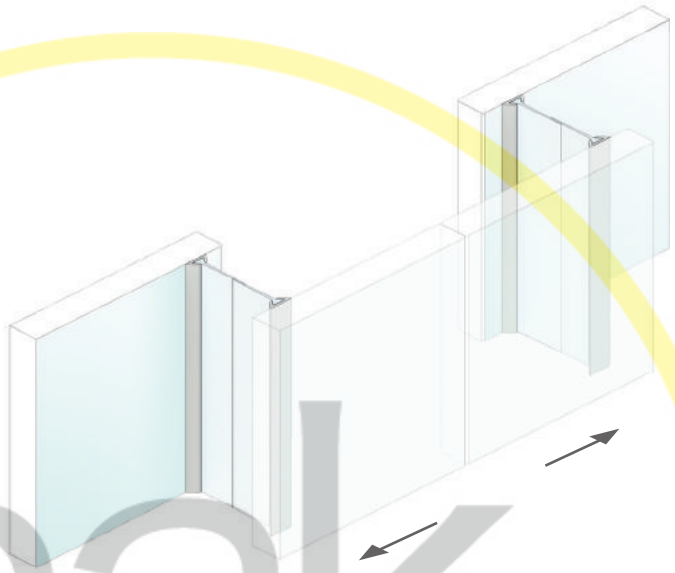
Sizes: Available in stock lengths.

Approvals

Energy NCC Pt. 3.12.3.3 & J3.4.

Registered Design.





RP105

A weather and energy seal that is designed to suit automatic sliding door operated, frameless glass and metal frame doors.

Comprising of two sealing sections, the RP105 is fitted in an overlap configuration to effectively seal the vertical gap between the fixed and active sliding door leaf.

Used in conjunction with Raven brush strip door bottom seal RP74F, astragal seals RP103, RP104, RP42 and Raven Threshold plates.

Location: Automatic sliding door operated, frameless glass & metal frame doors.

Min/Max Gap: 15mm to 28mm (prior to installation).

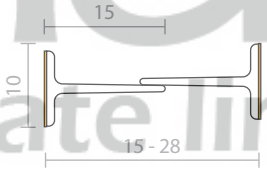
Fixing: Self adhesive.

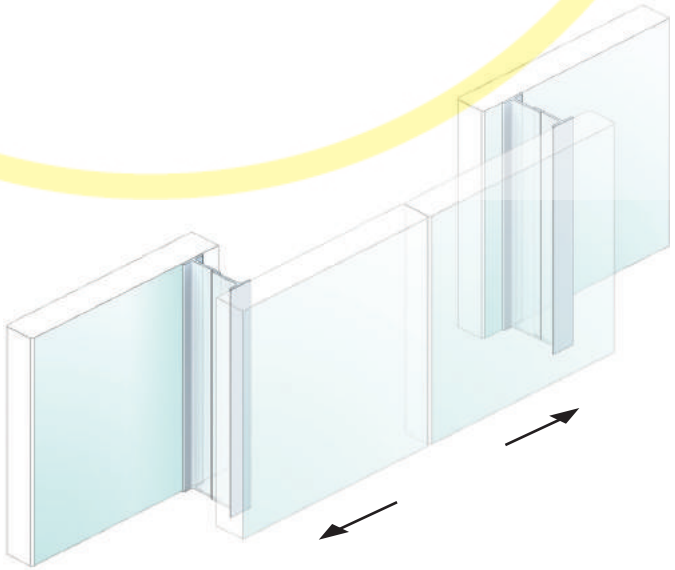
Seal: Clear rigid and flexible co-polymer seal.

Sizes: Available in stock lengths.

Approvals

Energy NCC Pt. 3.12.3.3 & J3.4.





Magnetic Astragals

Magnetic Meeting Stile Seals

RP39

A refrigeration type vinyl magnetic strip in an anodised aluminium housing. RP39 provides an astragal for timber and metal doors. The magnetic strip has sufficient closing strength that latches may not be required.

For perimeter seal applications, refer to page 86.

Note: As an astragal seal, RP39 is best suited to infrequent use and door closer hold open applications.

Location: Head, jambs and stiles of single and double butt hinged doors, sliding doors or bulkhead applications. Butt hinges recommended.

Min/Max Gap: 4mm to 8mm (meeting stiles).

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

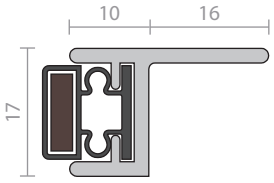
Fixing: Screw fix. Zinc plated, cross recess head S.T. screws supplied. Fixing holes are slotted.

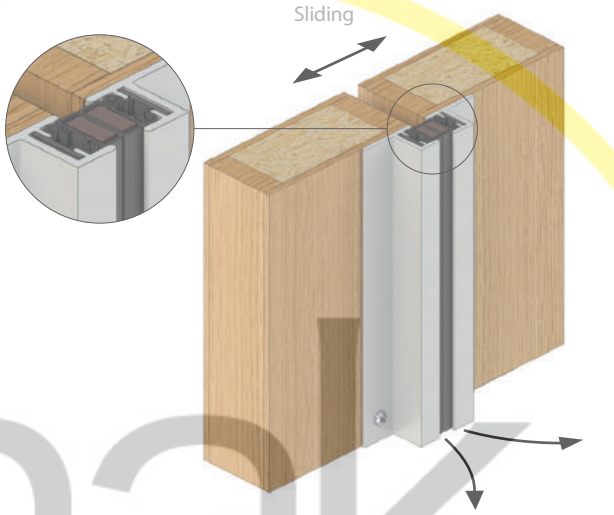
Seal: Black PVC.

Sizes: Available in stock lengths.

Approvals

Energy NCC Pt. 3.12.3.3 & J3.4.





RP65

A refrigeration type vinyl magnetic strip in an anodised aluminium channel which is morticed into the stiles of pivot, sliding or butt hinged double doors, to form an effective astragal. The magnetic strip is locked in place to prevent creeping and has sufficient strength that latches may not be required (centre latching can not be used).

Can be used in conjunction with Raven door bottom and perimeter seals.

Note: RP65 is best suited to infrequent use and door closer hold open applications.

Location: Meeting stiles of double swinging and sliding timber doors.

Min/Max Gap: 5mm to 7mm. (Swing doors).

Finish: Satin clear (silver) anodised aluminium (15µm).

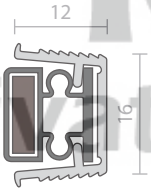
Fixing: Push-in locking fit into a 16.5mm x 12mm deep groove and optional adhesive. Minimum door thickness of 40mm required.

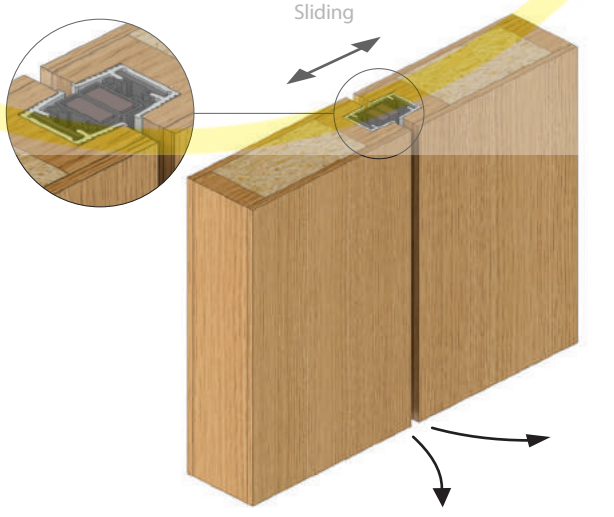
Seal: Black PVC with magnetic strip.

Sizes: Available in stock lengths.

Approvals

Energy NCC Pt. 3.12.3.3 & J3.4.





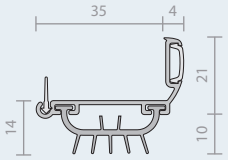
Astragals

Meeting Stile Seals

Multi-use Products

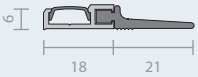
RP2b (brush only) p.117

RP4T p.59

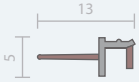


RP26 p.60

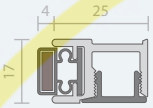
RP51Si p.61



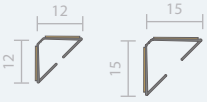
RP73 p.89



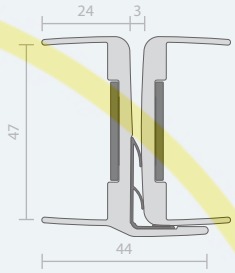
RP85 p.91



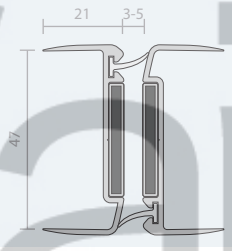
RP120, RP150 p.94



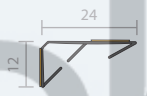
RP121 p.112



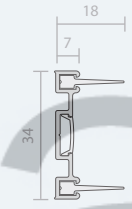
RP122 p.113



RP124 p.94



RP130Si p.95



RP134 p.95

Adelaide Botanic High School

Adelaide Botanic High School showcases the best of public education, launching an innovative facility providing 1250 students from inner-city suburbs with greater access to high quality secondary learning.

The school is unique in the fact that it's the first truly vertical school in South Australia.

Requirements

Key considerations include acoustic performance, as well as fire and smoke sealing systems with products selected to fit harmoniously with the design elements carefully selected by the architectural team. To meet the building's various sealing requirements and to compliment the prestigious nature of the project, Raven was specified due to its trusted reputation and its high quality products.

Solution

Raven provides the industry's most extensive range of NCC compliant; NATA tested and certified Door & Window Sealing Systems. Raven is also independently certified to international quality management standard ISO9001 ensuring that we supply projects with the highest grade quality products backed with industry leading technical service.

Silicon Weather Stripping - RP500 Series

Joinery Seals for Doors and Windows

Fitted into wooden kerf grooves, Raven silicon weather stripping can be used in all door and window joinery systems that require a premium quality, low closing force compression seal. Raven silicon weather stripping can also be used in aluminium and PVC proprietary systems where channel dimensions and clearances suit.

By the virtual elimination of compression set distortion (-60°C to +200°C), Raven silicon weather stripping increases life cycle sealing performance over traditional, plastic covered foam strips that may become hard and brittle. Raven silicon weather stripping has exceptional abrasion qualities that include improved resistance to UV, biological and chemical deterioration. When fitted correctly, Raven silicon weather stripping will not shrink and for ease of maintenance, can be removed and reused. This feature is well appreciated by painters and maintenance people.

Importantly, Raven silicon weather stripping offers improvements in air and rain infiltration performance, particularly where lower closing forces are required to meet new building regulations for energy efficiency and acoustic performance or where access and mobility is important.

Note: For Bushfire Ember Attack refer Raven product selection table on page 29.

Approvals

Acoustic AUS/NZ: NCC Spec. F5.5.
UK/EU: Approved Document E. Rated to BS EN ISO 717-1.

Weather AUS/NZ: NCC various sections. AS2047, AS4055, AS4420 Pt. 0 to 5 & AS/NZS 1170.
UK/EU: Approved Document L1 & L2. Tests above are similar to BS 5368 & BS 7386.

Energy NCC Pt. 3.12.3.3 & J3.4.

RP500

Location: Aluminium, PVC or timber door and window frame grooves where dimensions suit.

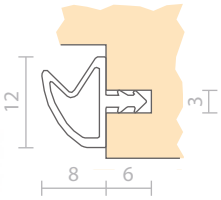
Compression: 1mm to 3mm.

Finish: White, brown or black.

Fixing: Push-in locking fit into a 3mm x 6mm deep kerf groove.

Sizes: 100m, 24m.

Approvals: **Acoustic, Weather & Energy.**



RP510

Location: Aluminium, PVC or timber door and window frame grooves where dimensions suit.

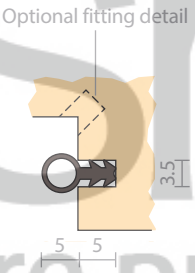
Compression: 1mm to 2mm.

Finish: White, brown or black.

Fixing: Push-in locking fit into a 3.5mm x 5mm deep kerf groove.

Sizes: 100m, 24m.

Approvals: **Acoustic, Weather & Energy.**



RP520

Location: Aluminium, PVC or timber door and window frame grooves where dimensions suit.

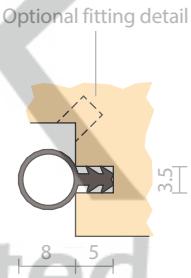
Compression: 1mm to 3mm.

Finish: White, brown or black.

Fixing: Push-in locking fit into a 3.5mm x 5mm deep kerf groove.

Sizes: 100m, 24m.

Approvals: **Acoustic, Weather & Energy.**



RP530

Location: Aluminium, PVC or timber door and window frame grooves where dimensions suit.

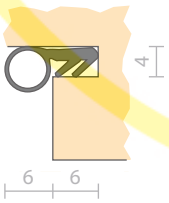
Compression: 1mm to 2mm.

Finish: White, brown or black.

Fixing: Push-in locking fit into a 4mm x 6mm deep kerf groove.

Sizes: 50m, 24m.

Approvals: **Acoustic, Weather & Energy.**



RP540

Location: Proprietary aluminium or PVC door and window frame grooves where dimensions suit.

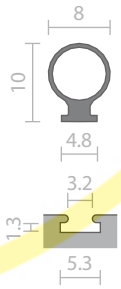
Compression: 1mm to 3mm.

Finish: Black.

Fixing: Slide fit into aluminium or rigid PVC groove where dimensions suit. (Channel not supplied).

Sizes: 100m, 24m.

Approvals: **Energy.**



Recommended groove dimensions. Channel not supplied.

RP550

Location: Aluminium, PVC or timber door and window frame grooves where dimensions suit.

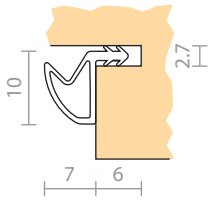
Compression: 1mm to 3mm.

Finish: White, brown or black.

Fixing: Push-in locking fit into a 2.7mm x 6mm deep kerf groove.

Sizes: 100m, 24m.

Approvals: **Weather & Energy.**



RP560

Location: Aluminium, PVC or timber door and window frame grooves where dimensions suit.

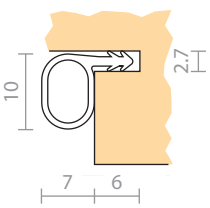
Compression: 1mm to 3mm.

Finish: White, brown or black.

Fixing: Push-in locking fit into a 2.7mm x 6mm deep kerf groove.

Sizes: 100m, 24m.

Approvals: **Weather & Energy.**



TPE Weather Stripping - RP600 Series

Joinery Seals for Doors and Windows

Fitted into wooden kerfs, Raven TPE weather stripping can be used in all door and window joinery systems that require a high quality, low closing force compression seal. Raven TPE weather stripping can also be used in aluminium and PVC proprietary systems where channel dimensions and clearances suit.

Raven TPE weather stripping increases life cycle sealing performance over traditional, plastic covered foam strips that may become hard and brittle. Raven TPE weather stripping also has exceptional abrasion qualities that include improved resistance to UV, biological and chemical deterioration. When fitted correctly, Raven TPE weather stripping will not shrink and has a compliant flammability rating ≤ 5 for use in bushfire prone areas. For ease of maintenance, Raven TPE weather strip can be removed and reused. This feature is well appreciated by painters and maintenance people.

Importantly, Raven TPE weather stripping offers improvements in air and rain infiltration performance, particularly where lower closing forces are required to meet new building regulations for energy efficiency and acoustic performance or where access and mobility is important.

Note: For Bushfire Ember Attack refer Raven product selection table on page 29.

Approvals

Fire Flammability index ≤ 5 when tested to AS1530.2.

Weather AUS/NZ: NCC various sections. AS2047, AS4055, AS4420 Pt. 0 to 5 & AS/NZS 1170.
UK/EU: Approved Document L1 & L2. Tests above are similar to BS 5368 & BS 7386.

Energy NCC Pt. 3.12.3.3 & J3.4.

RP600

Location: Aluminium, PVC or timber door and window frame grooves where dimensions suit.

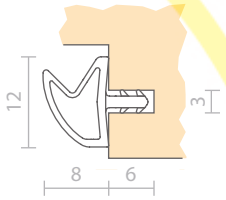
Compression: 1mm to 3mm.

Finish: White, brown or black.

Fixing: Push in locking fit into a 3mm x 6mm deep kerf groove.

Sizes: 100m, 24m.

Approvals: Fire, Weather & Energy.



RP610

Location: Aluminium, PVC or timber door and window frame grooves where dimensions suit.

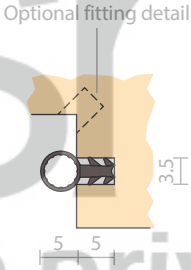
Compression: 1mm to 2mm.

Finish: White, brown or black.

Fixing: Push in locking fit into a 3.5mm x 5mm deep kerf groove.

Sizes: 100m, 24m.

Approvals: Fire, Weather & Energy.



RP620

Location: Aluminium, PVC or timber door and window frame grooves where dimensions suit.

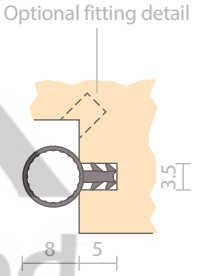
Compression: 1mm to 3mm.

Finish: White, brown or black.

Fixing: Push in locking fit into a 3.5mm x 5mm deep kerf groove.

Sizes: 100m, 24m.

Approvals: Fire, Weather & Energy.



RP630

Location: Aluminium, PVC or timber door and window frame grooves where dimensions suit.

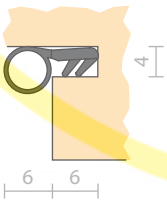
Compression: 1mm to 2mm.

Finish: White, brown or black.

Fixing: Push in locking fit into a 4mm x 6mm deep kerf groove.

Sizes: 100m, 24m.

Approvals: Fire & Energy.



RP640

Location: Proprietary aluminium or PVC door and window frame groove where dimensions suit.

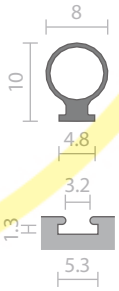
Compression: 1mm to 3mm.

Finish: Black.

Fixing: Slide fit into aluminium or rigid PVC groove where dimensions suit. (Channel not supplied).

Sizes: 100m, 24m.

Approvals: Fire & Energy.



Recommended groove dimensions. Channel not supplied.

RP650

Location: Aluminium, PVC or timber door and window frame grooves where dimensions suit.

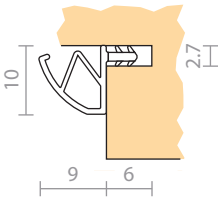
Compression: 1mm to 3mm.

Finish: White, brown or black.

Fixing: Push in locking fit into a 2.7mm x 6mm deep kerf groove.

Sizes: 100m, 24m.

Approvals: Fire & Energy.



RP660

Location: Aluminium, PVC or timber door and window frame grooves where dimensions suit.

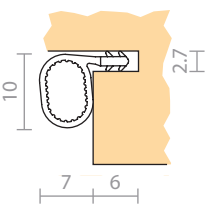
Compression: 1mm to 3mm.

Finish: White, brown or black.

Fixing: Push in locking fit into a 2.7mm x 6mm deep kerf groove.

Sizes: 100m, 24m.

Approvals: Fire, Weather & Energy.



TPE Weather Stripping - RP600 Series

Joinery Seals for Doors and Windows

Approvals

Fire Flammability index ≤ 5 when tested to AS1530.2.

Weather AUS/NZ: NCC various sections. AS2047, AS4055, AS4420 Pt. 0 to 5 & AS/NZS 1170.
UK/EU: Approved Document L1 & L2. Tests above are similar to BS 5368 & BS 7386.

Energy NCC Pt. 3.12.3.3 & J3.4.

RP680

Location: Proprietary aluminium or PVC door and window frame groove where dimensions suit.

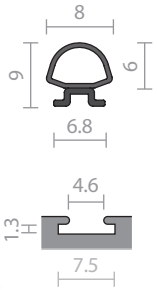
Compression: 1mm to 3mm.

Finish: Black.

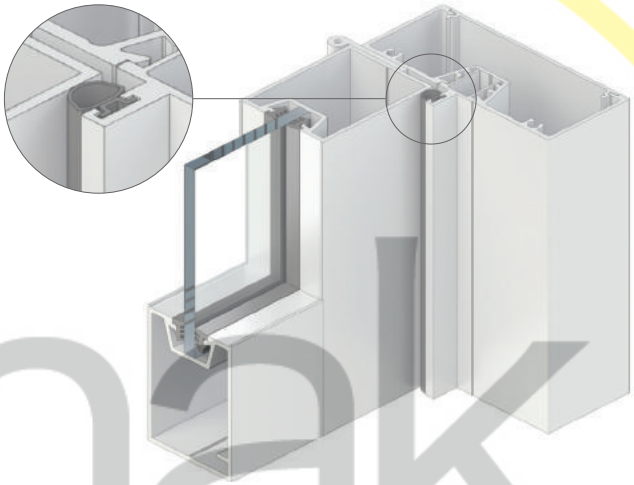
Fixing: Slide fit into aluminium or rigid PVC groove where dimensions suit. (Channel not supplied).

Sizes: 100m, 24m.

Approvals: **Fire & Energy.**



Recommended groove dimensions. Channel not supplied.



Ritz-Carlton – Elizabeth Quay, WA

Raven Products was proud to supply our architectural range of products to the Ritz Carlton project located on the Swan River at Elizabeth Quay. The $500 million project is a prestigious example of urban architecture where design meets location.

The two six-star towers combine 205 five-star hotel rooms, 379 residential apartments, communal areas and event facilities while the ground floor features retail, dining, and entertainment spaces as well as on-site parking.

Requirements

Key requirements for the project included Raven fire and smoke sealing systems that offer high acoustic performance. The Raven systems chosen needed to harmoniously integrate within the Architectural design elements.

Benefits

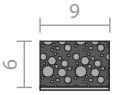
Additionally, Raven's black anodised RP127Si Automatic seals were also selected, as they offer a balance of contemporary design with heavy duty performance to satisfy the clients' high expectations of 'fit for purpose' solutions. This is an important consideration for specifiers where heavy pedestrian and wheeled traffic is to be experienced through doorways.

Self-adhesive Seals

The seals below are superior quality, self-adhesive weather-strip seals for doors and windows. Quick and easy to install, they are DIY products which work well in eliminating draughts, rattles and cushioning applications.

RP14

BAL LOW



Location: Perimeter of doors and windows.

Min/Max Gap: 3mm to 5mm (user determined).

Fixing: Self adhesive. *Note: Contact surface must be clean, smooth and if painted, well cured. Self adhesive seals will not adhere to oiled or alkyd finishes or to easy clean wash and wear paint surfaces.*

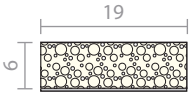
Seal: White or grey open cell urethane foam.

Sizes: 5m coil.

Approvals: **Energy** NCC Pt. 3.12.3.3 & J3.4.

RP14a

BAL LOW



Location: Perimeter of doors and windows.

Min/Max Gap: 3mm to 5mm (user determined).

Fixing: Self adhesive. *Note: Contact surface must be clean, smooth and if painted, well cured. Self adhesive seals will not adhere to oiled or alkyd finishes or to easy clean wash and wear paint surfaces.*

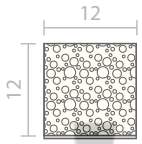
Seal: White or grey open cell urethane foam.

Sizes: 5m coil.

Approvals: **Energy** NCC Pt. 3.12.3.3 & J3.4.

RP14b

BAL LOW



Location: Perimeter of doors and windows.

Min/Max Gap: 8mm to 11mm (user determined).

Fixing: Self adhesive. *Note: Contact surface must be clean, smooth and if painted, well cured. Self adhesive seals will not adhere to oiled or alkyd finishes or to easy clean wash and wear paint surfaces.*

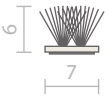
Seal: White open cell urethane foam.

Sizes: 2.5m coil.

Approvals: **Energy** NCC Pt. 3.12.3.3 & J3.4.

RP61

BAL ≤29



Location: Perimeter of doors and windows.

Min/Max Gap: 3mm to 5mm (user determined).

Fixing: Self adhesive. *Note: Contact surface must be clean, smooth and if painted, well cured. Self adhesive seals will not adhere to oiled or alkyd finishes or to easy clean wash and wear paint surfaces.*

Seal: Grey polypropylene.

Sizes: 5m coil.

Approvals: **Energy** NCC Pt. 3.12.3.3 & J3.4.

RP48

BAL ≤29

Location: Perimeter of doors and windows.

Min/Max Gap: 3mm to 5mm (user determined).

Fixing: Self adhesive. *Note: Contact surface must be clean, smooth and if painted, well cured. Self adhesive seals will not adhere to oiled or alkyd finishes or to easy clean wash and wear paint surfaces.*

Seal: White, brown or grey EPDM closed cell sponge.

Sizes: 5m coil pack (2 x 2.5m), jumbo reel (2 x 50m).

Approvals: **Energy** NCC Pt. 3.12.3.3 & J3.4.

RP55

BAL ≤29

Location: Perimeter of doors and windows.

Min/Max Gap: 3mm to 6mm (user determined).

Fixing: Self adhesive. *Note: Contact surface must be clean, smooth and if painted, well cured. Self adhesive seals will not adhere to oiled or alkyd finishes or to easy clean wash and wear paint surfaces.*

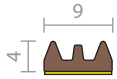
Seal: White, brown or grey EPDM closed cell sponge.

Sizes: 6m coil pack (2 x 3m), jumbo reel (2 x 50m).

Approvals: **Energy** NCC Pt. 3.12.3.3 & J3.4.

RP59

BAL ≤29



Location: Perimeter of doors and windows.

Min/Max Gap: 2mm to 4mm (user determined).

Fixing: Self adhesive. *Note: Contact surface must be clean, smooth and if painted, well cured. Self adhesive seals will not adhere to oiled or alkyd finishes or to easy clean wash and wear paint surfaces.*

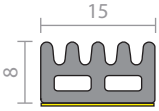
Seal: White, brown or grey EPDM closed cell sponge.

Sizes: 5m coil pack (2 x 2.5m), jumbo reel (2 x 50m).

Approvals: **Energy** NCC Pt. 3.12.3.3 & J3.4.

RP108

BAL ≤29



Location: Multi-purpose (user determined).

Min/Max Gap: 6mm to 8mm (user determined).

Fixing: Self adhesive. *Note: Contact surface must be clean, smooth and if painted, well cured. Self adhesive seals will not adhere to oiled or alkyd finishes or to easy clean wash and wear paint surfaces.*

Seal: White or grey EPDM closed cell sponge.

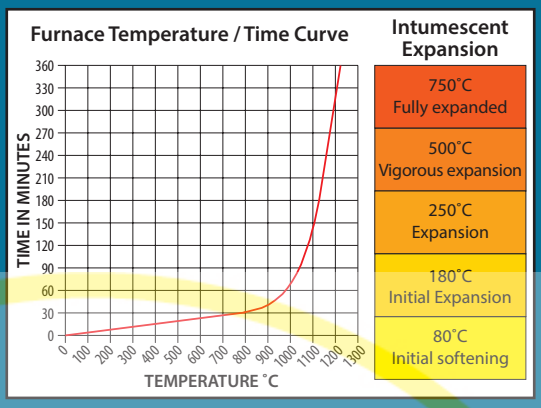
Sizes: 2m coil pack.

Approvals: **Energy** NCC Pt. 3.12.3.3 & J3.4.

Intumescent Fire Seals

Raven has a large range of intumescent fire seals to suit the OEM and retrofit aftermarket. Intumescent seals are predominantly used in door assemblies manufactured by fire door fabricators where they incorporate Raven intumescent seals into the fire door set prior to leaving the factory.

Used in fire door assemblies of timber, steel or composite construction, Raven intumescent seals expand rapidly to many times their original size upon contact with fire or hot gasses above 200°C. Once the intumescent activates it concentrates pressure in confined spaces, exfoliates slowly to protect itself and has good insulation properties. When correctly positioned in the door leaf or door frame margin, the intumescent prevents the passage of flames and superheated gasses from travelling from one compartment to another.



Unlike sodium silicate based intumescent used by some manufacturers, Raven's unique formulation is unaffected by water, making it ideal for applications in damp or humid environments. Raven intumescent is clean, non-toxic and displays outstanding durability and reliability.

When specifying intumescent seals, their primary function is to upgrade fire resistance and maintain the integrity of a fire rated door assembly. Intumescent fire seals are also used in fire engineered solutions by fire engineers.

Important: In occupant life and safety situations such as "Smoke Door" applications, refer to Raven Smoke Sealing Systems for smoke doors and fire rated doors. Raven certified smoke sealing systems are necessary to help protect occupants within rooms from life threatening smoke in a fire emergency. Raven smoke sealing systems are tested for ambient and medium temperature smoke up to 200°C on smoke doors and fire rated doors. In almost all building fires the ignition point of a fire is a long way from the building occupants, however, toxic ambient and medium temperature smoke can move quickly from the primary source. Refer mandated building codes, i.e. Australian NCC Specification C3.4.

Note: Expansion rates may vary between products. The shown graph is a guide only.

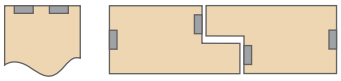
Intumescent fire seals should be fitted as shown in the following typical examples. *Note: In meeting stiles where seals are opposite each other, always fit an intumescent pile/fin smoke seal opposite a plain intumescent seal.*

30 Minute - Fire Rated FRL-/30/- and FD30

Single door RP1004, RP76 or RP76Si, UK/EU RP1504 Seals.

Pair of doors with square meeting stiles RP1004, RP76 or RP76Si, UK/EU RP1504, RP2004, RP3004 or RP63 Seals.

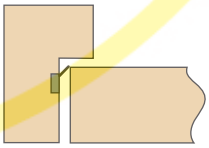
Pair of doors with rebated meeting stiles RP1004, RP76 or RP76Si, UK/EU RP1504 Seals.



Pair of doors with rounded meeting stiles RP1004, RP76 or RP76Si, UK/EU RP1504 & RP2004, RP3004 or RP63.

Pair or single doors with RP1004, RP76 or RP76Si seals UK/EU RP1504 seals. Fitted to head & jambs.

Pair or single doors with RP1004SA, RP2004SA or RP3004SA Seals. Fitted to head & jambs.

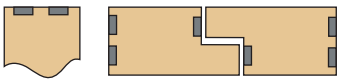


60 Minute - Fire Rated FRL-/60/- and FD60

Single door RP2004, RP3004 or RP63 for UK/EU 3004 seals.

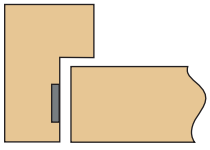
Pair of doors with square meeting stiles RP2004, RP3004 or RP63 for UK/EU 3004 seals.

Pair of doors with rebated meeting stiles RP1004, UK/EU RP1504 seals.

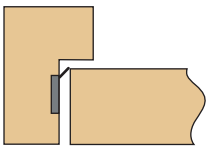


Pair of doors with rounded meeting stiles RP2004, RP3004 or RP63 for UK/EU 3004 seals.

Pair or single doors with RP2004, RP3004 or RP63 seals fitted to head & jambs for UK RP3004.



Pair or single doors with RP1004SA, RP2004SA or RP3004SA Seals. Fitted to head & jambs.



RP1004, RP1504, RP2004, RP2504, RP3004

An intumescent fire seal enclosed in a rigid PVC casing for use on fire resisting doors and door frames. Available in a range of sizes, these intumescent seals are set into a morticed groove using an adhesive backing tape.

Location: Morticed into the door frame and around stiles and head.

Finish: Brown or white rigid PVC holder with intumescent infill.

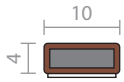
Fixing: Self adhesive. *Note: Contact surface must be clean, smooth and if painted, well cured. Self adhesive seals will not adhere to oiled or alkyd finishes or to easy clean wash and wear paint surfaces.*

Sizes: 2100mm.

Approvals

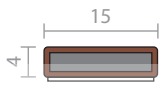
Fire & Smoke AUS/NZ: NCC Spec. C3.4 for fire doors. AS1530.4 & AS/NZS 1905.1. NZ BC Compliance Doc. C/AS1 6.19.2(a) & App. C6.1.1.
UK/EU: Approved Document B. BS 476 Pt. 20 & 22, BS EN 1634-1.

RP1004



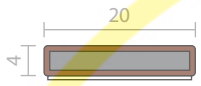
FRL & FRR-/30/- and FD30.

RP1504



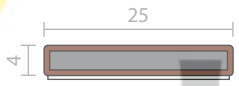
FRL & FRR-/30/- and FD30.

RP2004



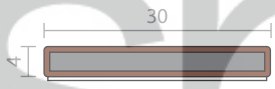
FRL & FRR-/60/- and FD60.

RP2504



FRL & FRR-/60/- and FD60.

RP3004



FRL & FRR-/60/- and FD60.

RP1004F, RP2004F

An intumescent fire seal enclosed in a PVC casing for use on fire resisting doors and door frames. Set into a morticed groove using an adhesive backing tape, the RP1004F and RP2004F are ideal to upgrade perimeter door frame margins that exceed the 3mm gap of compliance on proprietary fire doors. Supplied coiled to minimise wastage when cutting to exact size.

Location: Morticed into the door frame and around stiles and head.

Finish: Brown or white flexible PVC holder with intumescent infill.

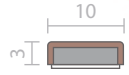
Fixing: Self adhesive. *Note: Contact surface must be clean, smooth and if painted, well cured. Self adhesive seals will not adhere to oiled or alkyd finishes or to easy clean wash and wear paint surfaces.*

Sizes:
RP1004F 150m coil.
RP2004F 100m coil.

Approvals

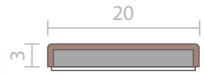
Fire & Smoke AUS/NZ: NCC Spec. C3.4 for fire doors. AS1530.4 & AS/NZS 1905.1. NZ BC Compliance Doc. C/AS1 6.19.2 & App. C6.1.1.
UK/EU: Approved Document B. BS 476 Pt. 20 & 22 (similar to BS EN 1634-1).

RP1004F



FRL & FRR-/60/- and FD60.

RP2004F



FRL & FRR-/120/30 and FD120.

RP1004S, RP2004S

An intumescent fire seal enclosed in a rigid PVC casing set into a morticed groove for use on fire resisting doors and door frames. Incorporating a polypropylene pile smoke seal and fin barrier.

Location: Morticed into the door frame and around stiles and head.

Min/Max Gap: 3mm to 4mm.

Finish: Brown or white rigid PVC holder with intumescent infill.

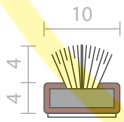
Fixing: Self adhesive. *Note: Contact surface must be clean, smooth and if painted, well cured. Self adhesive seals will not adhere to oiled or alkyd finishes or to easy clean wash and wear paint surfaces.*

Seal: Polypropylene pile and fin.

Sizes: 2100mm.

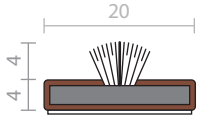
Approvals
Acoustic AUS/NZ: NCC Spec. F5.5.
UK/EU: Approved Document E. Rated to BS EN ISO 717-1.
Fire & Smoke AUS/NZ: NCC Spec. C3.4 for fire doors. AS1530.4 & AS/NZS 1905.1. NZ BC Compliance Doc. C/AS1 6.19.2(a) & App. C6.1.1.
UK/EU: Approved Document B. BS 476 Pt. 20 & 22 (similar to BS EN 1634-1).
Energy NCC Pt. 3.12.3.3 & J3.4.

RP1004S



FRL & FRR-/120/30 and FD120.

RP2004S



FRL & FRR-/120/30 and FD120.

RP1004SA, RP2004SA, RP3004SA

An intumescent fire seal enclosed in a rigid PVC casing set into a morticed groove for use on fire resisting doors and door frames. Incorporating a PVC smoke seal.

Location: Morticed into the door frame and around stiles and head.

Min/Max Gap: 1mm to 4mm.

Finish: Brown or white rigid PVC holder with intumescent infill.

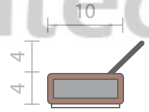
Fixing: Self adhesive. *Note: Contact surface must be clean, smooth and if painted, well cured. Self adhesive seals will not adhere to oiled or alkyd finishes or to easy clean wash and wear paint surfaces.*

Seal: PVC fin seal.

Sizes: 2100mm.

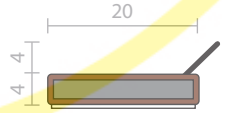
Approvals
Acoustic AUS/NZ: NCC Spec. F5.5.
UK/EU: Approved Document E. Rated to BS EN ISO 717-1.
Fire & Smoke AUS/NZ: NCC Spec. C3.4 for fire doors. AS1530.4 & AS/NZS 1905.1. NZ BC Compliance Doc. C/AS1 6.19.2(a) & App. C6.1.1.
UK/EU: Approved Document B. BS 476 Pt. 20 & 22, BS EN 1634-1.
Energy NCC Pt. 3.12.3.3 & J3.4.

RP1004SA



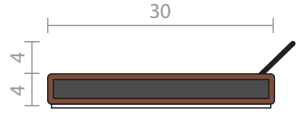
FRL & FRR-/120/30 and FD120.

RP2004SA



FRL & FRR-/120/30 and FD120.

RP3004SA



FRL & FRR-/60/- and FD60.

RP8FZ

RP8FZ is a concealed automatic door bottom seal that is spring loaded to lift clear of the floor when the door is opened. Acoustically designed the seal has a silicon gasket with an intumescent insert for maximum fire protection at the door bottom.

Ideal for Fire Engineered applications. Suitable for fire rated doors, solid core timber doors and hollow bottom rail metal doors.

RP8FZ operates automatically by pressure against the door jamb on its adjustable strike. The seal has a level adjustment to achieve an optimum seal.

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

Min/Max Gap: 3mm to 13mm.

Finish: Satin clear (silver) anodised aluminium (15µm).

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

Seal: RP308Si. Grey silicon rubber (SE).

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

Approvals

ANSI/BHMA A156.22

Acoustic AUS/NZ: NCC Spec. F5.5.
UK/EU: Approved Document E. Rated to BS EN ISO 717-1.

Fire AUS/NZ: NCC Spec. C3.4. AS1530.4 & AS/NZS 1905.1. NZ BC Compliance Doc. C/AS1 6.19.2 & App. C6.1.1.
UK/EU: Approved Document B. BS 476 Pt. 20 & 22 (similar to BS EN 1634-1).
FRL & FRR-/240/60 and FD240.
Gasket flammability index 1 when tested to AS1530.2.

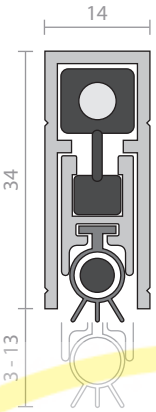
Smoke NCC Spec. C3.4. AS1530.7 & BS EN 1634-3. Meets smoke leakage rates specified in AS6905 & EN 13501-2 "Sa", "Sm".

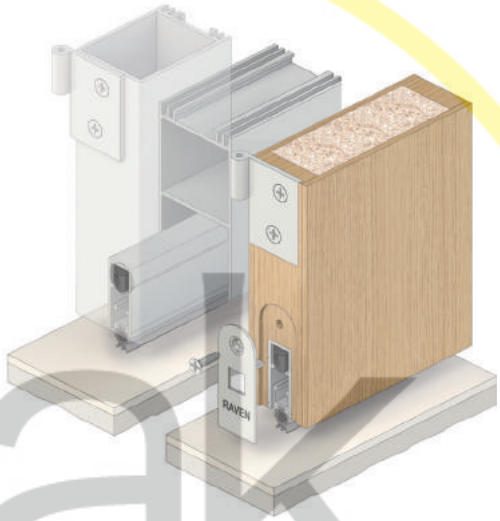
Energy NCC Pt. 3.12.3.3 & J3.4.

Durability Tested to over 1,000,000 operating cycles without failure.

Insects/Vermin AS4674, 2.1.5(iv), 2.1.7.

Patented.





RP53

An intumescent seal in a PVC holder which is ideal for upgrading proprietary door perimeter gaps where the clearance exceeds the maximum 3mm as specified by AS1905.1.

When exposed to heat, the seal expands to fill in the gap.

Use in conjunction with Raven Si rated door bottom smoke seals or brush strip seals for pivot doors.

Location: Door or frame stiles and head.

Min/Max Gap: 2mm to 6mm.

Finish: Brown, grey or white flexible PVC holder with intumescent infill. Can be painted.

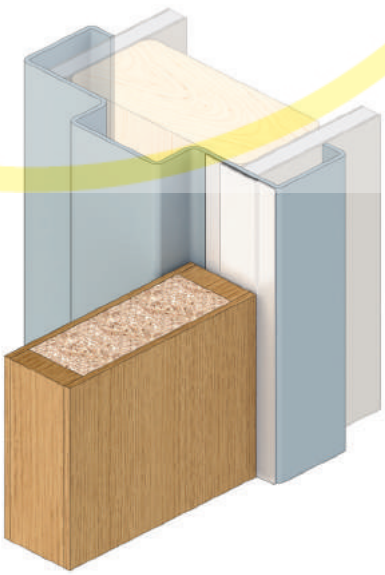
Fixing: Self adhesive.

Note: Contact surface must be clean, smooth and if painted, well cured. Self adhesive seals will not adhere to oiled or alkyd finishes or to easy clean wash and wear paint surfaces.

Sizes: 3000mm, 2100mm.

Approvals

Fire & Smoke AUS/NZ: NCC Spec. C3.4 for fire doors. AS1530.4 & AS/NZS 1905.1. NZ BC Compliance Doc. C/AS1 6.19.2(a) & App. C6.1.1.
FRL & FRR-/120/30 and FD120.
UK/EU: Approved Document B. BS 476 Pt. 20 & 22 (similar to BS EN 1634-1).



R37913

RP63

A combined intumescent medium temperature smoke and fire seal which is heat activated. It is unobtrusively set into a machined groove around the perimeter of timber frames and door edges. The RP63 can be checked out in the latch area to allow for the continuation of the fin.

An effective medium temperature smoke seal is achieved with a pair of silicon fins between the door and frame.

Location: Morticed into the door frame and around stiles and head.

Min/Max Gap: 3mm to 4mm.

Finish: Satin clear (silver) anodised aluminium (15µm). Trim available in antique white.

Fixing: Adhesive fix into a 30mm x 7mm groove.

Seal: RP371Si. Grey silicon rubber (SE) with intumescent infill.

Sizes: 2400mm, 2100mm.

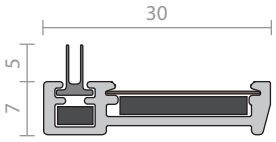
Approvals

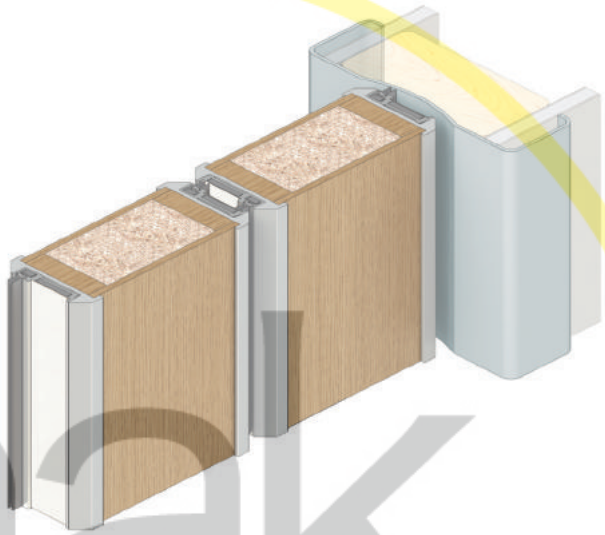
Fire AUS/NZ: NCC Spec. C3.4. AS1530.4 & AS/NZS 1905.1. NZ BC Compliance Doc. C/AS1 6.19.2 & App. C6.1.1.
UK/EU: Approved Document B. (Tests above are similar to BS EN 1634-1 & BS 476 Pt. 20 & 22).
FRL & FRR-/180/30 and FD180.

Smoke NCC Spec. C3.4. AS1530.7 & BS EN 1634-3. Meets smoke leakage rates specified in AS6905 & EN 13501-2 "Sa", "Sm".

Energy NCC Pt. 3.12.3.3 & J3.4.

Antique white





RP76, RP76Si

Combined intumescent smoke and fire seals which are heat activated. It is unobtrusively set into a machined groove (10x6mm) around the perimeter of timber frame or door edges. Dependent on application, fire ratings of one to four hours have been certified by fire door manufacturers using RP76 and RP76Si intumescent fire and smoke seals.

RP76 utilises a woven pile polypropylene ambient (cold) smoke seal.

RP76Si utilises a pair of silicon fins to achieve a medium temperature smoke seal.

Location: Morticed into the door frame and around stiles and head.

Min/Max Gap:
RP76 3mm to 4mm.
RP76Si 4mm to 5mm.

Finish: Cranberry red rigid PVC holder with intumescent infill.

Fixing: Self adhesive into a 10mm x 6mm groove. *Note: Contact surface must be clean, smooth and if painted, well cured.*

Seal:
RP76 Polypropylene pile ambient temperature smoke seal.
RP76Si RP371Si. Grey silicon rubber (SE) medium temperature smoke seal.

Sizes: 2100mm.

Approvals

Fire & Smoke AUS/NZ: NCC Spec. C3.4. AS1530.4 & AS/NZS 1905.1. NZ BC Compliance Doc. C/AS1 6.19.2(a) & App. C6.1.1.
UK/EU: Approved Document B. (Tests above are similar to BS EN 1634-1 & BS 476 Pt. 20 & 22).
FRL & FRR-/240/60 and FD240.

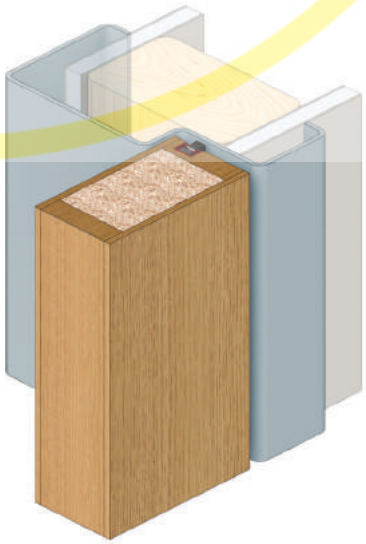
Energy NCC Pt. 3.12.3.3 & J3.4.

RP76Si

Fire Gasket flammability index 1 when tested to AS1530.2.

Smoke NCC Spec. C3.4. AS1530.7 & BS EN 1634-3. Meets smoke leakage rates specified in AS6905 & EN 13501-2 "Sa", "Sm".

RP76 **RP76Si**



RP114

RP114 is a door bottom intumescent fire and hot smoke seal that is designed to salvage non-compliant fire doors where clearances exceed 10mm under fire doors as per AS/NZS 1905.1.

The simple retrofit design avoids costly door replacement and the need to remove the door during installation.

RP114 is approved for use on leading proprietary fire doors.

Note: RP114 should just clear the floor during door opening and closing. To avoid the seal fouling on uneven or sloping surfaces, the finned gasket portion should engage an approved Raven threshold plate. This will enhance the other icon sealing functions.

Location: Bottom of fire and smoke doors. Minimum door thickness of 35mm. For garage doors, use two seals.

Min/Max Gap: 14mm to 20mm (without threshold plate).

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

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

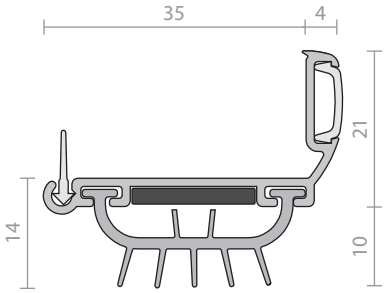
Seal: Intumescent infill, grey flexible PVC (SE) cover strip and RP304Si finned silicon rubber gasket.

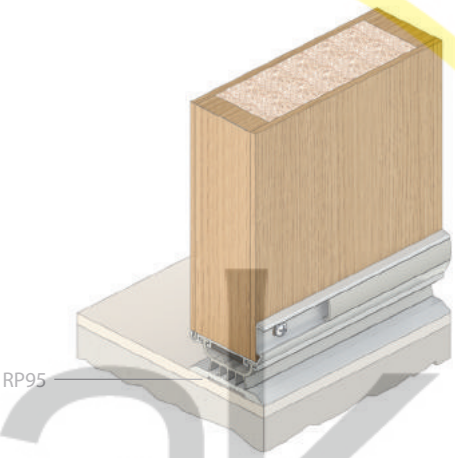
Sizes: 1220mm, 920mm, 820mm.

Approvals

Fire AUS/NZ: NCC Spec. C3.4 for fire doors. AS1530.4 & AS/NZS 1905.1. NZ BC Compliance Doc. C/AS1 6.19.2(a) & App. C6.1.1.
UK/EU: Approved Document B. (Tests above are similar to BS EN 1634-1 & BS 476 Pt. 20 & 22).
FRL & FRR-/240/60 and FD240.

Energy NCC Pt. 3.12.3.3 & J3.4.





RP121

An effective fire, smoke and acoustic seal designed for single action fire doors. The RP121 is a twin section bullnose T bar aluminium astragal seal with an intumescent infill and smoke seal.

Location: Meeting stiles of pairs of 47mm nominal thickness single action fire doors.

Min/Max Gap: 13mm to 16mm (prior to installation).

Finish: Satin clear (silver) anodised aluminium (15µm).

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

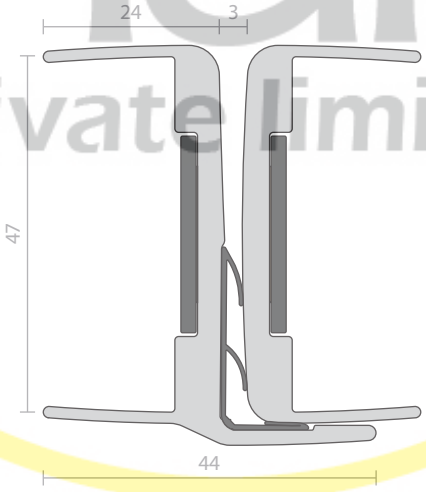
Seal: Concealed intumescent infill and RP124 smoke seal.

Sizes: Available in stock lengths.

Approvals

Smoke NCC Spec. C3.4. AS1530.7 & BS EN 1634-3. Meets smoke leakage rates specified in AS6905 & EN 13501-2 "Sa", "Sm".

Energy NCC Pt. 3.12.3.3 & J3.4.



RP122

An effective fire, smoke and acoustic seal designed for double action fire doors. With concealed fixings, the RP122 is a twin section aluminium bullnose astragal seal with an intumescent infill and silicon fin smoke seal.

Location: Meeting stiles of pairs of 47mm nominal thickness double action fire doors.

Min/Max Gap: 14mm to 16mm (prior to installation).

Finish: Satin clear (silver) anodised aluminium (15µm).

Fixing: Concealed screw fix. Zinc plated, cross recess head CSK S.T. screws supplied. Self adhesive intumescent infill.

Seal: RP3122Si. Light grey silicon rubber (SE) medium temperature smoke seal. Light grey rigid PVC case with intumescent infill.

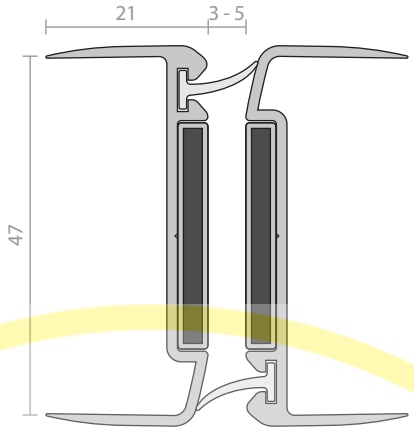
Sizes: Available in stock lengths.

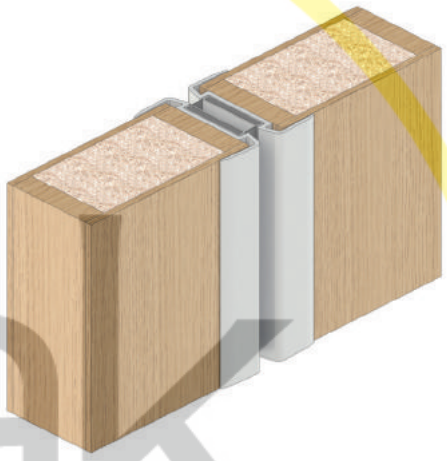
Approvals

Fire AUS/NZ: NCC Spec. C3.4. AS1530.4 & AS/NZS 1905.1. NZ BC Compliance Doc. C/AS1 6.19.2 & App. C6.1.1.
UK/EU: Approved Document B. BS 476 Pt. 20 & 22 (similar to BS EN 1634-1).
FRL & FRR-/120/30 and FD120.

Smoke NCC Spec. C3.4. AS1530.7 & BS EN 1634-3. Meets smoke leakage rates specified in AS6905 & EN 13501-2 "Sa", "Sm".

Energy NCC Pt. 3.12.3.3 & J3.4.





RP160

RP160 is an intumescent fire and smoke seal. Its heat activating intumescent expands at a lower temperature, offering improved smoke and fire sealing performance over traditional batwing fin type seals.

RP160 offers certified smoke and fire sealing protection from ambient (cold) through medium to hot smoke and toxic fumes exceeding 200°C. Discreetly located in the protected corners of rebated timber or steel door frames, RP160 is suitable for new and retrofit applications.

RP160 thin profile and fin placement design allows easier door closing and latching in accordance with door closing force mandates; a feature that will be well appreciated by installers and fire door inspectors everywhere.

Location: Around rebated frames of single or double butt hinged doors.

Min/Max Gap: 2.5mm to 7mm.

Fixing: Self adhesive.

Note: Contact surface must be clean, smooth and if painted, well cured. Self adhesive seals will not adhere to oiled or alkyd finishes or to easy clean wash and wear paint surfaces.

Seal: Black or white co-extruded Rigid and flexible flame retardant PVC, with an intumescent infill.

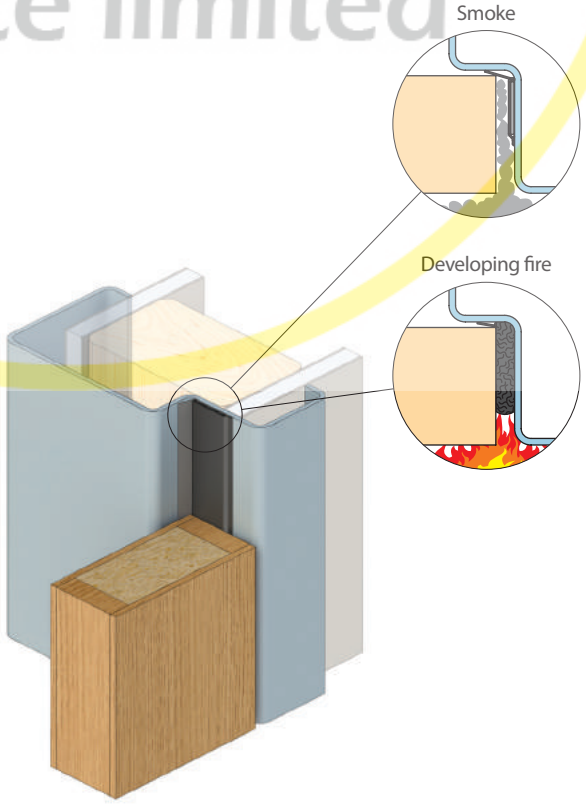
Sizes: Available in door set sizes or stock lengths.

Approvals

Fire AUS/NZ: NCC Spec. C3.4. AS1530.4 & AS/NZS 1905.1. NZ BC Compliance Doc. C/AS1 6.19.2 & App. C6.1.1.
UK/EU: Approved Document B. (Tests above are similar to BS EN 1634-1 & BS 476 Pt. 20 & 22).
FRL & FRR-/120/30.

Smoke NCC Spec. C3.4. Tested to AS1530.7 & BS EN 1634-3. Meets smoke leakage rates specified in AS6905 & EN 13501-2 "Sa", "Sm".

Energy NCC Pt. 3.12.3.3 & J3.4.



Notes

Notes

Notes

Brush Strip Seals

Nylon Filament

The versatility of Raven brush strip seals and ease of installation makes them particularly suitable for sealing hard, flat surfaces and difficult applications such as sliding, revolving, pivot, roll-up and panel lift doors. Suitable for protection against smoke, draughts, light, dust, insects, bushfire embers and for energy retention, Raven nylon brush strips are ideal for heavy duty applications with tests proving minimal wear occurs over prolonged use.

Dense black nylon bristles are locked into a galvanised steel spine which is often fitted into an anodised aluminium holder. Raven brush strips are also available without the aluminium holders. Specify for example RP57 (brush only). Adhesive tape is standard on most holders for ease of installation.

Raven use special nylon filament due to its significantly superior performance over inferior materials such as polypropylene. Withstanding temperatures up to 200ºC for 30 minutes, Raven brush strips are self-extinguishing and can be used as a bushfire ember seal, up to BAL FZ for garage doors. Product selection should be made when assessing the mandated requirements of the NCC and Australian Bushfire Standard AS 3959.

RP2, RP2b (brush only)

H C M200°C BAL ≤29

Nylon brush strip seals without holder, that are fitted in a concealed manner into a machined groove in a door.

Where a small clearance is encountered, the groove should be double morticed to allow the brush to flex.

Location: Stiles or bottom of single, double, sliding and double acting timber doors. Suitable for hard, flat surfaces.

Min/Max Gap:
RP2 up to 19mm (user determined).
RP2b (brush only) up to 13mm (user determined).

Fixing: Inserted into morticed groove (optional adhesive if required). Where a small clearance is encountered, the groove should be double morticed to allow the brush to flex.

Seal: Black fine, dense, UV stabilised nylon filaments secured in a galvanised steel spine.

Sizes: Available in stock lengths.

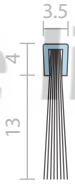
Approvals

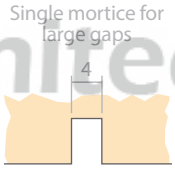
Fire Brush Strip flammability index 1 when tested to AS1530.2.

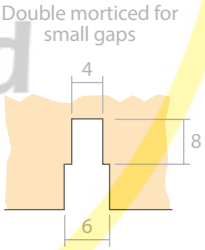
Energy NCC Pt. 3.12.3.3 & J3.4.

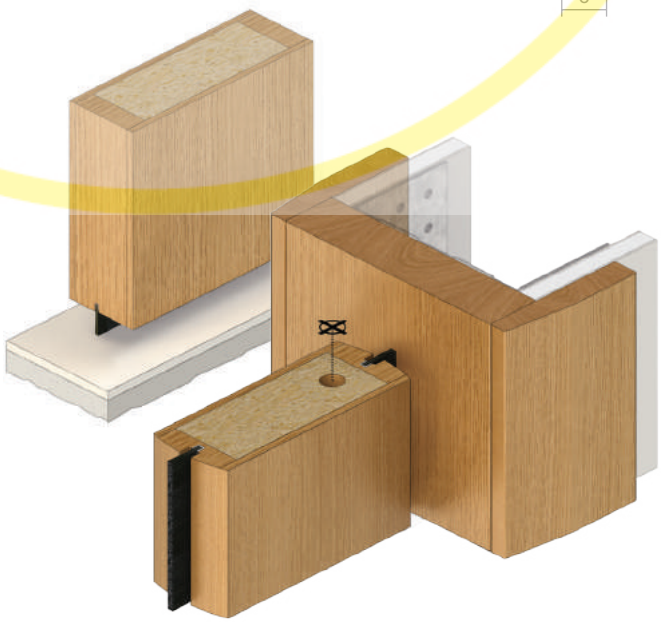
RP2

RP2b (brush only)









Brush Strip Seals

Nylon Filament

RP2a

A nylon brush strip seal with an anodised aluminium carrier that mounts to the inside or outside of a door. It is ideal for sliding or double acting doors.

Can be concealed inside of an aluminium door suite bottom rail by the fabricator.

Used in conjunction with Raven threshold plates.

Location: Bottom of single, double, sliding and double acting doors. Suitable for hard, flat surfaces.

Min/Max Gap: Up to 19mm (user determined).

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

Fixing: Self adhesive or can be screw fixed. *Note: Contact surface must be clean, smooth and if painted, well cured. Self adhesive seals will not adhere to oiled or alkyd finishes or to easy clean wash and wear paint surfaces.*

Seal: Black fine, dense, UV stabilised nylon filaments.

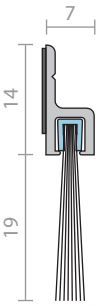
Sizes: Available in stock lengths.

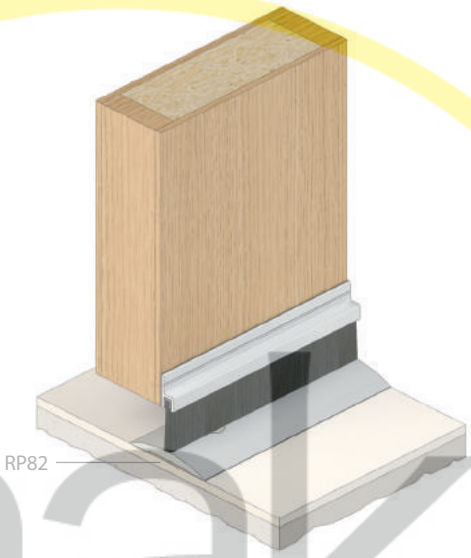
Approvals

Fire Brush Strip flammability index 1 when tested to AS1530.2.

Energy NCC Pt. 3.12.3.3 & J3.4.

BAL ≤FZ when used on a garage in accordance with AS 3959.





RP2b

A nylon brush strip seal with an anodised aluminium carrier that mounts to the inside or outside of a door.

Used in conjunction with Raven threshold plates.

Location: Bottom of single, double or sliding doors. Suitable for hard, flat surfaces.

Min/Max Gap: Up to 13mm (user determined).

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

Fixing: Self adhesive or can be screw fixed. *Note: Contact surface must be clean, smooth and if painted, well cured. Self adhesive seals will not adhere to oiled or alkyd finishes or to easy clean wash and wear paint surfaces.*

Seal: Black fine, dense, UV stabilised nylon filaments.

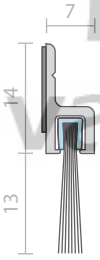
Sizes: Available in stock lengths.

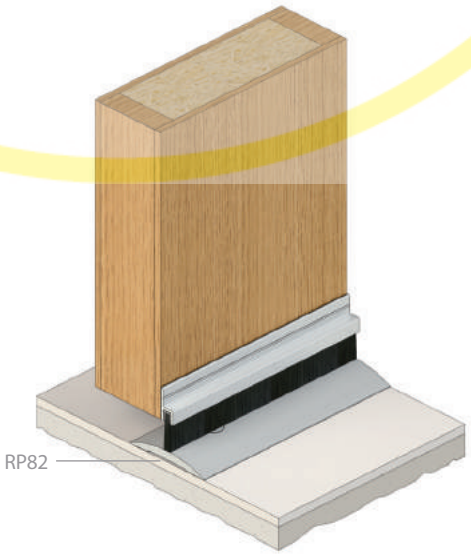
Approvals

Fire Brush Strip flammability index 1 when tested to AS1530.2.

Energy NCC Pt. 3.12.3.3 & J3.4.

BAL ≤FZ when used on a garage in accordance with AS 3959.





Brush Strip Seals

Nylon Filament

RP15

BAL ≤29

A nylon brush strip seal with aluminium carrier that is ideal where larger gaps are encountered.

Used in conjunction with Raven threshold plates.

Location: Bottom of single, double or sliding doors. Suitable for hard, flat surfaces.

Min/Max Gap: Up to 25mm (user determined).

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

Fixing: Self adhesive or can be screw fixed. *Note: Contact surface must be clean, smooth and if painted, well cured. Self adhesive seals will not adhere to oiled or alkyd finishes or to easy clean wash and wear paint surfaces.*

Seal: Black fine, dense, UV stabilised nylon filaments.

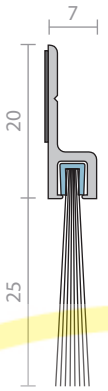
Sizes: Available in stock lengths.

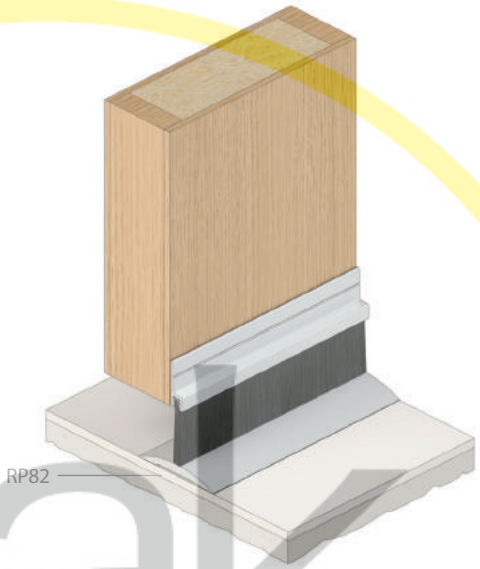
Approvals

Fire Brush Strip flammability index 1 when tested to AS1530.2.

Energy NCC Pt. 3.12.3.3 & J3.4.

BAL ≤FZ when used on a garage in accordance with AS 3959.





RP41

BAL ≤29

A nylon brush strip seal with aluminium carrier that is ideal where larger gaps are encountered. The RP41 can be fitted to lintels of roll-up doors to help prevent the ingress of birds and wind blown embers in bushfire prone areas.

Note: Roll-up doors must have a fairly constant sealing gap when the door operates to avoid excessive flexing of brush filament.

Location: Bottom of single, double, revolving or sliding and double acting pivot doors. Lintels of roll-up garage doors or lintels and stiles of panel-lift garage doors. Suitable for hard, flat surfaces.

Min/Max Gap: 30mm to 50mm (user determined).

Finish: Satin clear (silver) anodised aluminium (15µm).

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

Seal: Black fine, dense, UV stabilised nylon filaments.

Sizes: Available in stock lengths.

Approvals

Fire Brush Strip flammability index 1 when tested to AS1530.2.

Energy NCC Pt. 3.12.3.3 & J3.4.

BAL ≤FZ when used on a garage in accordance with AS 3959.

Brush Strip Seals

Nylon Filament

RP49, RP50

Versatile nylon brush strip seals with angled aluminium carriers. The RP49 has a 90 degree angle and the RP50 has a 45 degree angle.

Location:
RP49 Frame or stiles of sliding doors (user determined). Suitable for hard, flat surfaces.
RP50 Panel lift doors (user determined). Suitable for hard, flat surfaces.

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

Fixing: Self adhesive or can be screw fixed. *Note: Contact surface must be clean, smooth and if painted, well cured. Self adhesive seals will not adhere to oiled or alkyd finishes or to easy clean wash and wear paint surfaces.*

Seal: Black fine, dense, UV stabilised nylon filaments.

Sizes: Available in stock lengths.

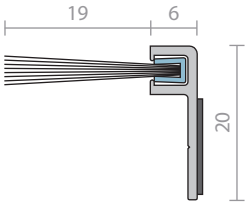
Approvals

Fire Brush Strip flammability index 1 when tested to AS1530.2.

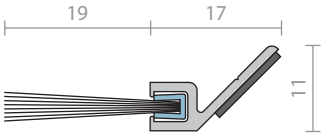
Energy NCC Pt. 3.12.3.3 & J3.4.

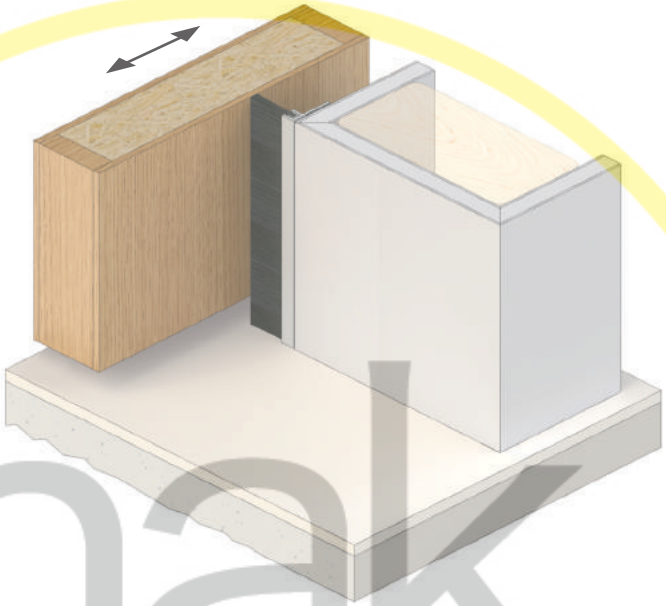
BAL ≤FZ when used on a garage in accordance with AS 3959.

RP49



RP50





RP51F

RP51F is a patented brush strip seal that is ideal for sealing the head, jambs and the bottom of automatic sliding doors. The RP51F nylon brush contains an additional barrier fin which is effective in the exclusion of medium temperature smoke, noise and weather.

Location: Head, jambs and bottom of automatic sliding doors. Suitable for hard, flat surfaces.

Min/Max Gap: Up to 13mm (user determined).

Finish: Satin clear (silver) anodised aluminium (15µm).

Fixing: Concealed screw fix. Zinc plated, cross recess head S.T. screws and cover strip supplied. Fixing holes are pre-slotted.

Seal: Black fine, dense, UV stabilised nylon filaments with a medium temperature smoke barrier fin within a galvanised spine.

Sizes: Available in stock lengths.

Approvals

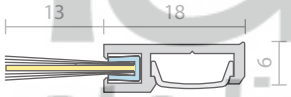
Fire Brush Strip flammability index 1 when tested to AS1530.2.

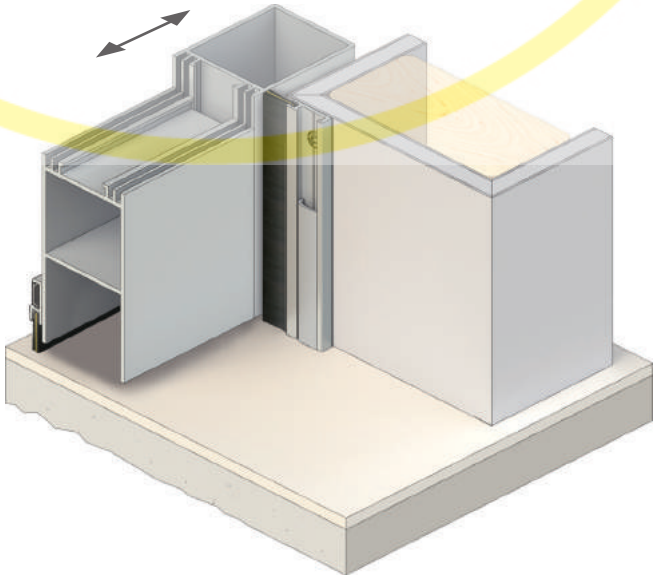
Smoke NCC Spec. C3.4. AS1530.7 & BS EN 1634-3. Meets smoke leakage rates specified in AS6905 & EN 13501-2 "Sa", "Sm".

Energy NCC Pt. 3.12.3.3 & J3.4.

BAL ≤FZ when used on a garage in accordance with AS 3959.

Patented.





Brush Strip Seals

Nylon Filament

RP52F

A nylon brush strip without holder, that is fitted in a concealed manner into a machined groove in a door. Where a small clearance is encountered, the groove should be double morticed to allow the brush and fin to flex. The brush houses a unique medium temperature fin, which is effective in the sealing of medium temperature smoke, noise and weather.

Location: Stiles or bottoms of single, double, sliding or double acting doors. Suitable for hard, flat surfaces.

Min/Max Gap: Up to 13mm (user determined).

Fixing: Inserted into morticed groove (optional adhesive if required). Where a small clearance is encountered, the groove should be double morticed to allow the brush to flex.

Seal: Black fine, dense, UV stabilised nylon filaments with a medium temperature smoke barrier fin within a galvanised spine.

Sizes: Available in stock lengths.

Approvals

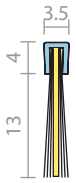
Fire Brush Strip flammability index 1 when tested to AS1530.2.

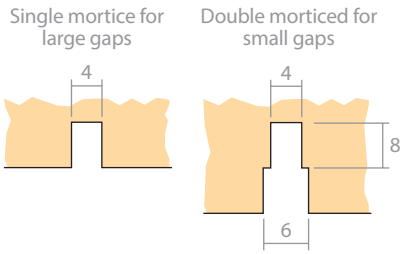
Smoke NCC Spec. C3.4.

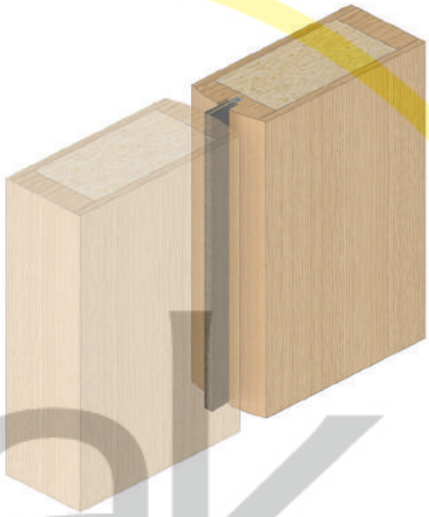
Energy NCC Pt. 3.12.3.3 & J3.4.

BAL ≤FZ when used on a garage in accordance with AS 3959.

Patented.







RP57, RP58

Nylon brush strip seals with aluminium carriers that are ideal where larger gaps are encountered. They can be fitted to lintels of roll-up doors to help prevent the ingress of birds and wind blown embers in bushfire prone areas.

Note: Roll-up doors must have a fairly consistent gap when the door operates to avoid excessive flexing of the seal.

Location: Bottom of single, double, revolving or sliding doors and double acting pivot doors. Lintels of roll-up garage doors. Suitable for hard, flat surfaces.

Min/Max Gap:
RP57 30mm to 50mm (user determined).
RP58 50mm to 75mm (user determined).

Finish:
RP57 Satin clear (silver), bronze anodised aluminium (15µm) or paint at extra cost.
RP58 Satin clear (silver) anodised aluminium (15µm) or paint at extra cost.

Fixing: Self adhesive or can be screw fixed. *Note: Contact surface must be clean, smooth and if painted, well cured. Self adhesive seals will not adhere to oiled or alkyd finishes or to easy clean wash and wear paint surfaces.*

Seal: Black fine, dense, UV stabilised nylon filaments.

Sizes: Available in stock lengths.

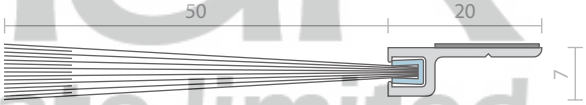
Approvals

Fire Brush Strip flammability index 1 when tested to AS1530.2.

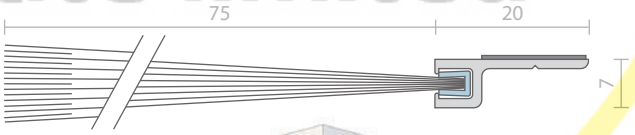
Energy NCC Pt. 3.12.3.3 & J3.4.

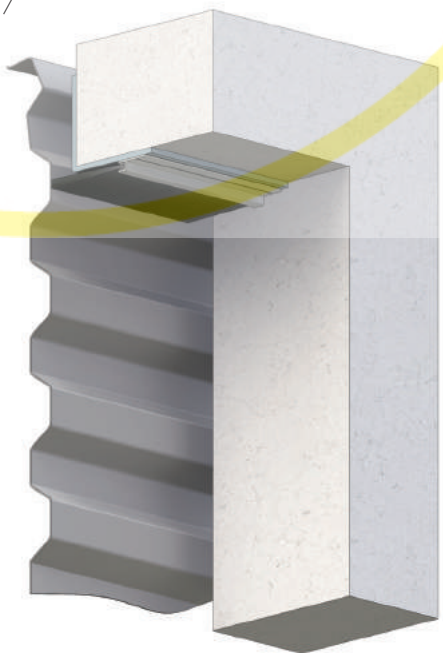
BAL ≤FZ when used on a garage in accordance with AS 3959.

RP57



RP58





Brush Strip Seals

Nylon Filament

RP74

A nylon brush strip seal with a self adhesive aluminium holder. Mounted to the inside or outside door head and bottom face, RP74 provides a very neat sealing solution with the advantage of final on site installation which overcomes unforeseen floor or sill variation.

Used in conjunction with Raven threshold plates.

Location: Frames or bottoms of single, double, sliding and double acting doors. Suitable for hard, flat surfaces.

Min/Max Gap: Up to 13mm (user determined).

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

Fixing: Self adhesive or can be screw fixed. *Note: Contact surface must be clean, smooth and if painted, well cured. Self adhesive seals will not adhere to oiled or alkyd finishes or to easy clean wash and wear paint surfaces.*

Seal: Black fine, dense, UV stabilised nylon filaments.

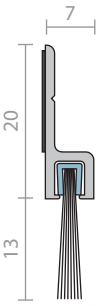
Sizes: Available in stock lengths.

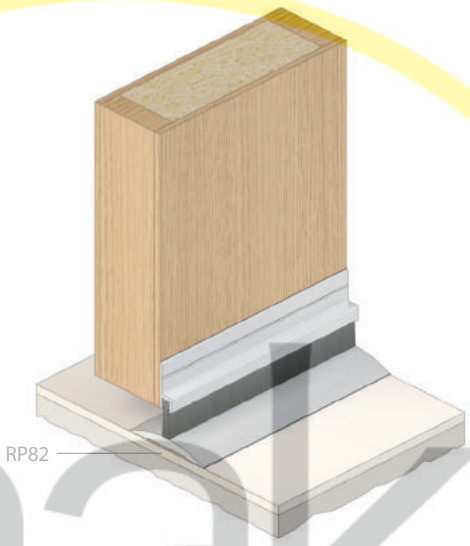
Approvals

Fire Brush Strip flammability index 1 when tested to AS1530.2. FRL & FRR-/120/30 and FD120.

Energy NCC Pt. 3.12.3.3 & J3.4.

BAL ≤FZ when used on a garage door or on an approved side hung fire door in accordance with AS 3959.





RP74F

A nylon brush strip seal that is ideal for sliding or double acting doors. Can also be used for the stiles of tilt-up doors. The brush houses a unique medium temperature fin, which is effective in the sealing of medium temperature smoke, noise and weather.

Used in conjunction with Raven threshold plates.

Location: Frames or bottoms of single, double, sliding and double acting doors as well as stiles of tilt up doors. Suitable for hard, flat surfaces.

Min/Max Gap: Up to 13mm (user determined).

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

Fixing: Self adhesive or can be screw fixed. *Note: Contact surface must be clean, smooth and if painted, well cured. Self adhesive seals will not adhere to oiled or alkyd finishes or to easy clean wash and wear paint surfaces.*

Seal: Black fine, dense, UV stabilised nylon filaments with a medium temperature smoke barrier fin.

Sizes: Available in stock lengths

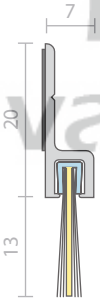
Approvals

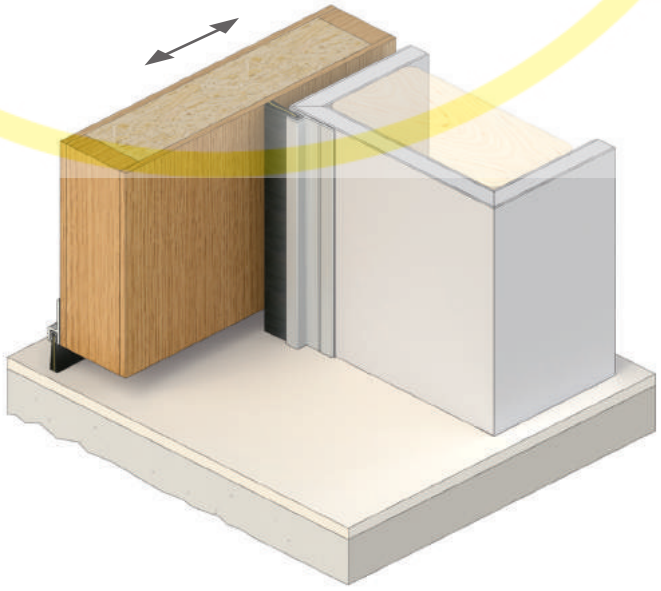
Fire Brush Strip flammability index 1 when tested to AS1530.2. FRL & FRR-/120/30 and FD120.

Smoke NCC Spec. C3.4. AS1530.7 & BS EN 1634-3. Meets smoke leakage rates specified in AS6905 & EN 13501-2 "Sa", "Sm".

Energy NCC Pt. 3.12.3.3 & J3.4.

BAL ≤FZ when used on a garage door or on an approved side hung fire door in accordance with AS 3959.





Brush Strip Seals

Nylon Filament

RP75

A nylon brush strip seal that is ideal for sliding or double acting doors. Can also be used for the stiles of tilt-up doors.

Used in conjunction with Raven threshold plates.

Location: Frames or bottoms of single, double, sliding and double acting doors as well as stiles of tilt up doors. Suitable for hard, flat surfaces.

Min/Max Gap: Up to 19mm (user determined).

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

Fixing: Self adhesive or can be screw fixed. *Note: Contact surface must be clean, smooth and if painted, well cured. Self adhesive seals will not adhere to oiled or alkyd finishes or to easy clean wash and wear paint surfaces.*

Seal: Black fine, dense, UV stabilised nylon filaments.

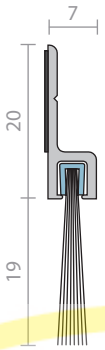
Sizes: Available in stock lengths.

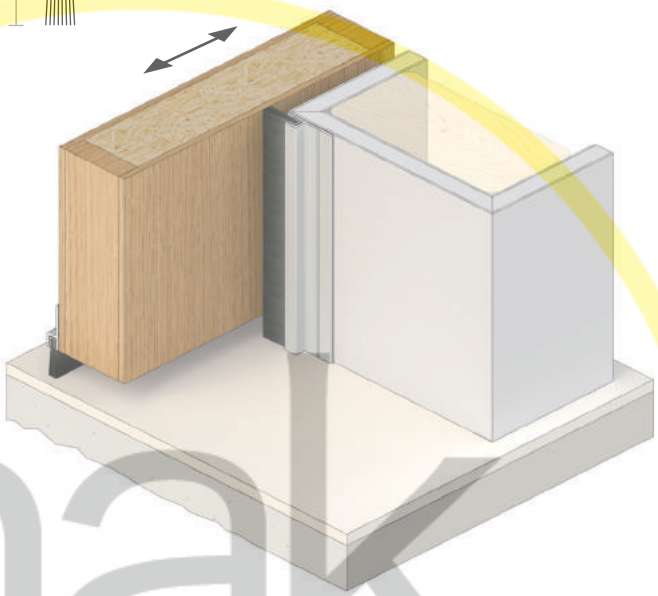
Approvals

Fire Brush Strip flammability index 1 when tested to AS1530.2.

Energy NCC Pt. 3.12.3.3 & J3.4.

BAL ≤FZ when used on a garage in accordance with AS 3959.





RP129F

A heavy duty medium temperature smoke door bottom seal. The seal is achieved by a pair of nylon brush strips with a medium temperature smoke barrier.

The seal can be checked out or drilled to accommodate the pivot, thereby providing a continuous seal.

Can be used in conjunction with RP130Si, other Raven perimeter seals and threshold plates.

Location: Bottom of double butt hinged or centre pivot double acting doors. Suitable for hard, flat surfaces.

Min/Max Gap: 15mm to 18mm.

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

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

Seal: RP52F. Black fine and dense nylon filaments, UV stabilised medium temperature smoke barrier fin and galvanised steel spine.

Sizes: Available in stock lengths.

Approvals

Fire Brush Strip flammability index 1 when tested to AS1530.2.

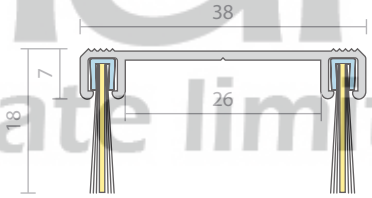
Smoke AUS/NZ: NCC Spec. C3.4. NZ BC Compliance Doc. C/AS1 6.19.2(b). AS1530.7 & BS EN 1634-3 (similar to BS 476 section 31.1). Meets smoke leakage rates specified in AS6905 & EN 13501-2 "Sa", "Sm".

Energy NCC Pt. 3.12.3.3 & J3.4.

Durability Tested to over 1,000,000 operating cycles without failure.

Patented, Registered Design.

BAL ≤FZ when used on a garage in accordance with AS 3959.



Anti-finger Jam Seal

Finger-pinch protection devices should be installed wherever doors are accessible to children in schools, kindergartens and children day care centres. Finger-pinch injuries in doors are a significant cause of injury and claims against liability insurance in child care situations. RP62 helps prevent fingers being jammed on the hinge side of a door. It is recommended RP62 be installed to the full height of the door/jamb for maximum protection. This will reduce tampering and accidental deposit of toys or waste material behind the anti-finger jam seal. RP62 can be retrofitted to butt hinged or centre pivot doors and conform to the UK Workplace (Health, Safety and Welfare) Regulations 1992 Statutory Instrument 1992 No. 3004 clause 18. The RP62BW is reversible for either a brown or white finish.

RP62

H

A safety strip which prevents fingers being jammed on the hinge side of a door. It is fixed to the door and the jamb on the hinged side.

Note: It is recommended to fit RP62 to the full height of the door/jamb for maximum protection. For longer lengths, butt join together.

Location: Door and jamb of 0-180 degree opening butt hinged or centre pivot doors.

Finish: Satin clear (silver) anodised aluminium (15µm).

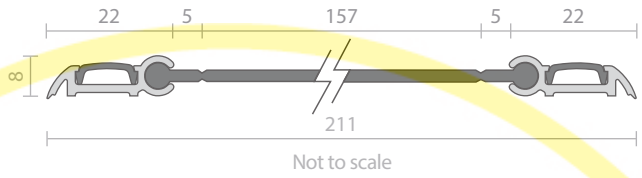
Fixing: Screw fix. Zinc plated, cross recess head S.T. screws and cover strip supplied. Fixing holes are pre-slotted.

Seal: RP362. Black EPDM rubber.

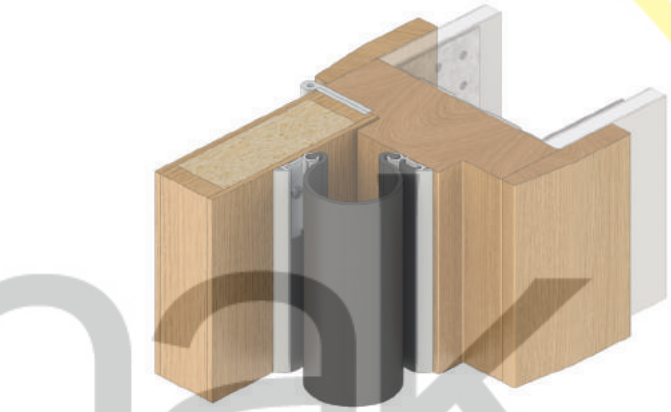
Sizes: 2100mm.

Approvals

Durability Tested to BS 8613:2017 Class 1 Finger protection devices for pedestrian doors.



Not to scale



RP62BW

H

A safety strip which prevents fingers being jammed on the hinge side of a door. It is fixed to the door and the jamb on the hinged side.

Note: It is recommended to fit RP62BW to the full height of the door/jamb for maximum protection. For longer lengths, butt join together.

RP62BW is reversible for a brown or white finish.

Location: Door and jamb of 0-180 degree opening butt hinged or centre pivot doors.

Finish: Satin clear (silver) anodised aluminium (15µm).

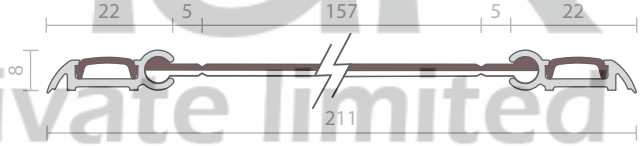
Fixing: Screw fix. Zinc plated, cross recess head S.T. screws and cover strip supplied. Fixing holes are pre-slotted.

Seal: RP462BW. Reversible flexible brown/white PVC rubber. Brown and white flexible PVC cover strips included.

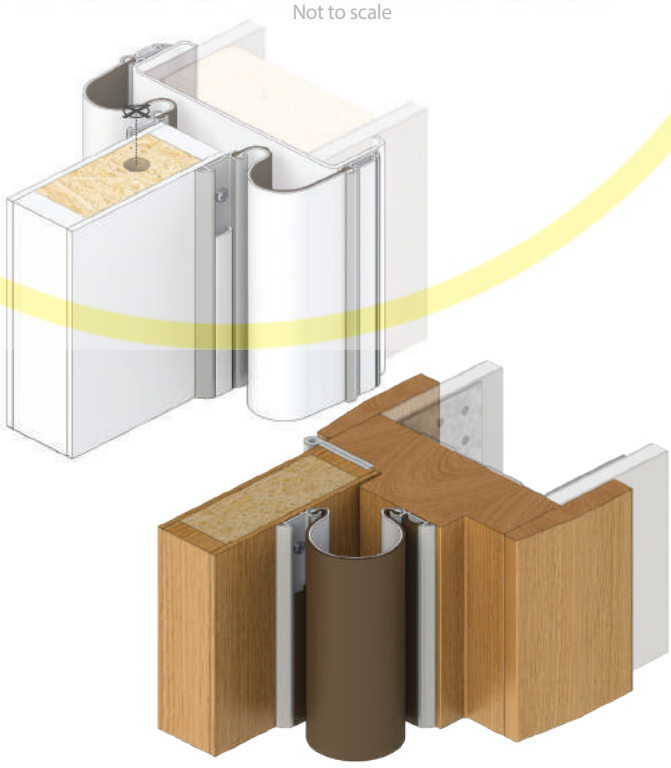
Sizes: 2500mm, 2100mm.

Approvals

Durability Tested to BS 8613:2017 Class 1 Finger protection devices for pedestrian doors.



Not to scale



RP62LGBK

H

A safety strip which prevents fingers being jammed on the hinge side of a door. It is fixed to the door and the jamb on the hinged side.

Note: It is recommended to fit RP62LGBK to the full height of the door/jamb for maximum protection. For longer lengths, butt join together.

RP62LGBK is reversible for a light grey or black finish.

Location: Door and jamb of 0-180 degree opening butt hinged or centre pivot doors.

Finish: Satin clear (silver) anodised aluminium (15µm).

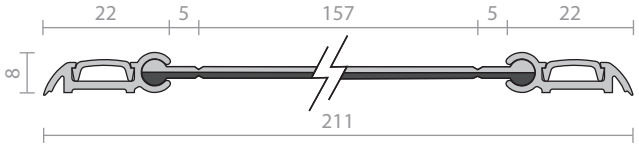
Fixing: Screw fix. Zinc plated, cross recess head S.T. screws and cover strip supplied. Fixing holes are pre-slotted.

Seal: RP462LGBK. Reversible flexible light grey/black PVC rubber. Light grey and black flexible PVC cover strips included.

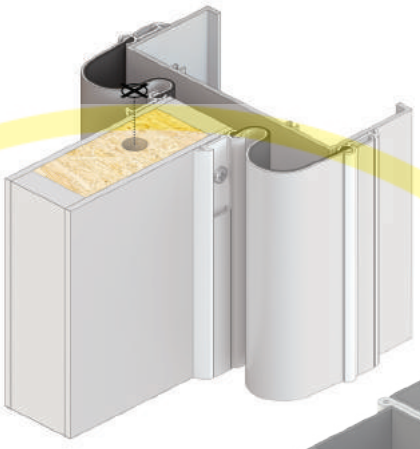
Sizes: 2500mm.

Approvals

Durability Tested to BS 8613:2017 Class 1 Finger protection devices for pedestrian doors.



Not to scale



RP62s

H

The smaller RP62s safety strip helps prevent fingers being jammed on the hinge barrel side of a door.

When used with the larger RP62 series, these safety strips will assist finger jam protection on both sides of the door at the hinged side.

Note: It is recommended to fit RP62s to the full height of the door/jamb for maximum protection. For longer lengths, butt join together.

RP62s is reversible for a light grey or black finish.

Location: Door and jamb of 0-170 degree opening butt hinged doors. *Note: Check dimensions for broad butt and parliament style hinges (user determined).*

Finish: Satin clear (silver) anodised aluminium (15µm).

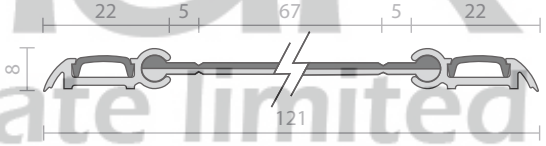
Fixing: Screw fix. Zinc plated, cross recess head S.T. screws and cover strip supplied. Fixing holes are pre-slotted.

Seal: RP462SLGBK. Reversible flexible light grey/black PVC rubber. Light grey and black flexible PVC cover strips included.

Sizes: 2500mm.

Approvals

Durability Tested to BS 8613:2017 Class 2 Finger protection devices for pedestrian doors.



Not to scale

Drip-strip

RP67

H

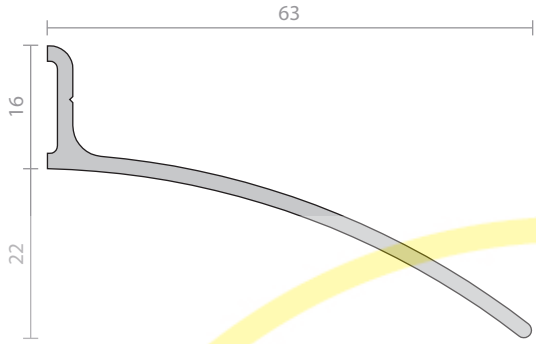
A drip strip designed to shed or channel water away from the head of exposed doors. Particularly suitable for outward opening doors. The RP67 requires an allowance of 50mm overlap each side of the door opening.

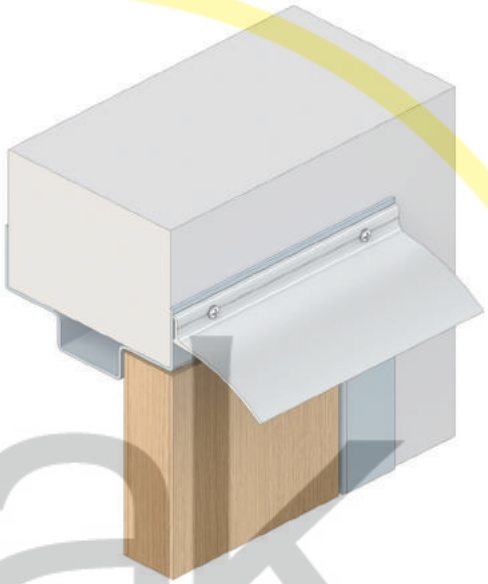
Location: Above doors.

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

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

Sizes: Available in stock lengths.





Threshold Access Ramps

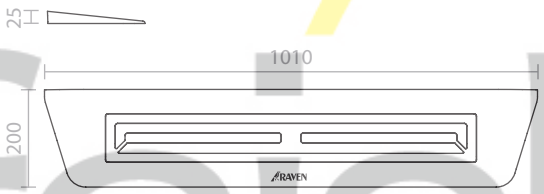
Raven Threshold Access Ramps are ideal retrofit solution for users of wheel chairs, walking frames, electric scooters and hand trolleys; anyone that regularly traverses tripping hazards at doorways or abrupt surface transitions around the home or in the work place.

Made from slip resistant recycled rubber, Raven Threshold Access Ramps will be welcomed by home owners, building occupiers, facility managers and OH&S personnel who recognise the need for a permanent and inexpensive retrofit solution to assist access and mobility in the home, at work or in the commercial environment. Until now, the problem involved a trade's person, the use of messy cement, fabricated metal plate or plywood to make and install a threshold access ramp. The new DIY alternative is the Raven Threshold Access Ramp. Simply lay the ramp in place or permanently fix with builders adhesive. Raven Threshold Access Ramps are extremely durable, will last for years and require no maintenance.

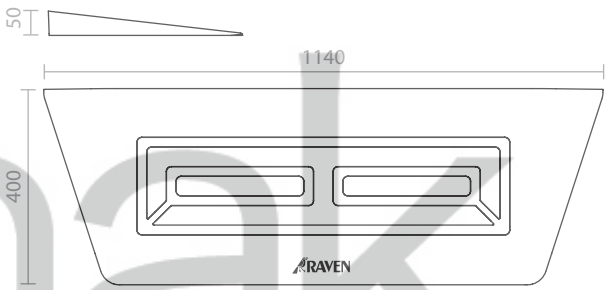
Available in two convenient ramp heights: 25mm (model TR025) and 50mm (model TR050) - gradient 1:8 (front).

When a doorway has a rise height above 35mm maximum, the TR050 becomes a user determined solution. If used as a retrofit Deemed-to-Satisfy solution in a new build, an approval should be sought from an access consultant or building engineer. This is necessary where a compliant floor transition may have been missed during the design phase or at the concrete forming stage.

TR025



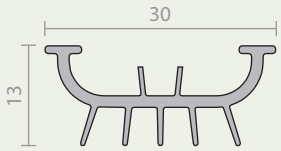
TR050



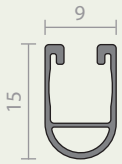
Some of the many extrusions that are used in the seals within this catalogue, may be ordered separately.

RP303 solid EPDM

RP304Si silicon rubber (SE)



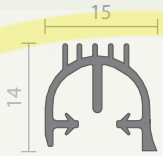
RP306Si NEW silicon rubber (SE)



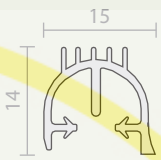
RP308Si GR silicon rubber (SE)

RP308Si BK silicon rubber (SE)

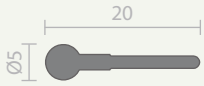
RP310Si BK silicon rubber (SE)



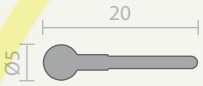
RP310Si LG silicon rubber (SE)



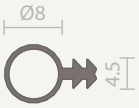
RP316Si BK silicon rubber (SE)



RP316Si GR silicon rubber (SE)



RP320 silicon rubber (SE)



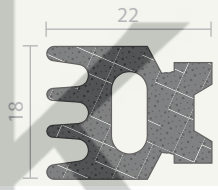
RP323 solid EPDM (SE)

RP326 solid EPDM

RP330 solid EPDM

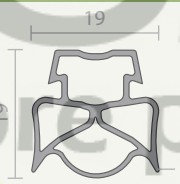
RP331 solid EPDM

RP338 sponge EPDM (SE)



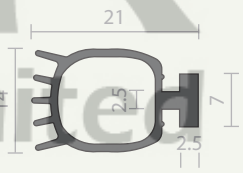
RP338Si BK silicon rubber (SE)

RP338Si GR silicon rubber (SE)

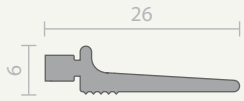


RP343Si silicon rubber (SE)

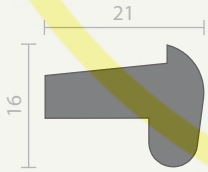
RP347Si silicon rubber (SE)



RP351Si silicon rubber (SE)



RP354 solid EPDM (SE)

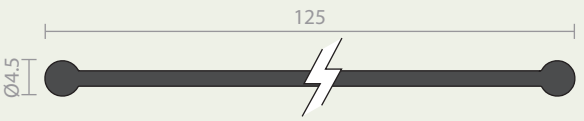


RP362 (Black) solid EPDM

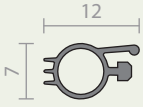
RP371Si BK silicon rubber (SE)

RP371Si GR silicon rubber (SE)

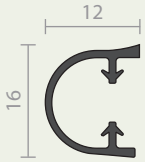
RP381 solid EPDM



RP378Si silicon rubber (SE)

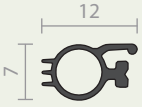


RP384Si silicon rubber (SE)

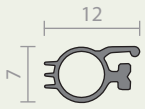


RP393Si silicon rubber (SE)

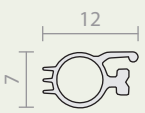
RP394Si BK silicon rubber (SE)



RP394Si GR silicon rubber (SE)

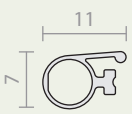


RP394Si LG silicon rubber (SE)



RP394HSi GR silicon rubber (SE)

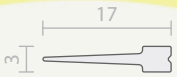
RP394HSi LG silicon rubber (SE)



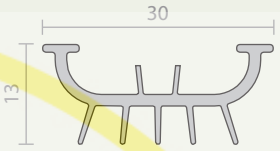
RP3122Si NEW silicon rubber (SE)

RP3126Si silicon rubber (SE)

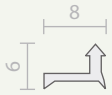
RP3129Si silicon rubber (SE)



RP404 flexible PVC

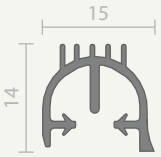


RP404a flexible PVC



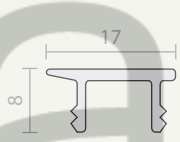
RP404b flexible PVC

RP410 flexible PVC



RP410a BK rigid PVC

RP410a LG rigid PVC

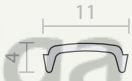


RP423 BK flexible PVC

RP423 BR flexible PVC

RP423 GR flexible PVC

RP423 LG flexible PVC



RP424 rigid PVC

RP435 BR rigid PVC

RP435 LG rigid PVC

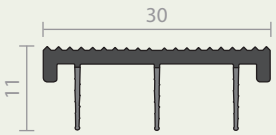
RP460 flexible TPE

RP462 BR flexible PVC

RP462 WH flexible PVC

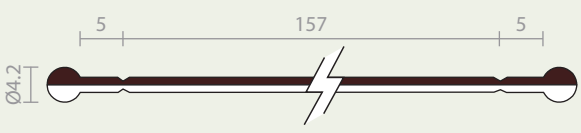
RP469 rigid/flexible PVC

RP486 rigid/flexible PVC

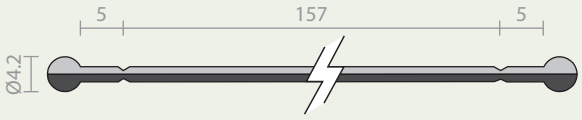


RP487 rigid PVC

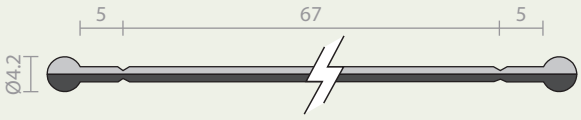
RP462 BW (Brown / White) flexible PVC



RP462 LGBK (Light Grey / Black) flexible PVC



RP462S LGBK (Light Grey / Black) NEW flexible PVC



Standards / Authorities

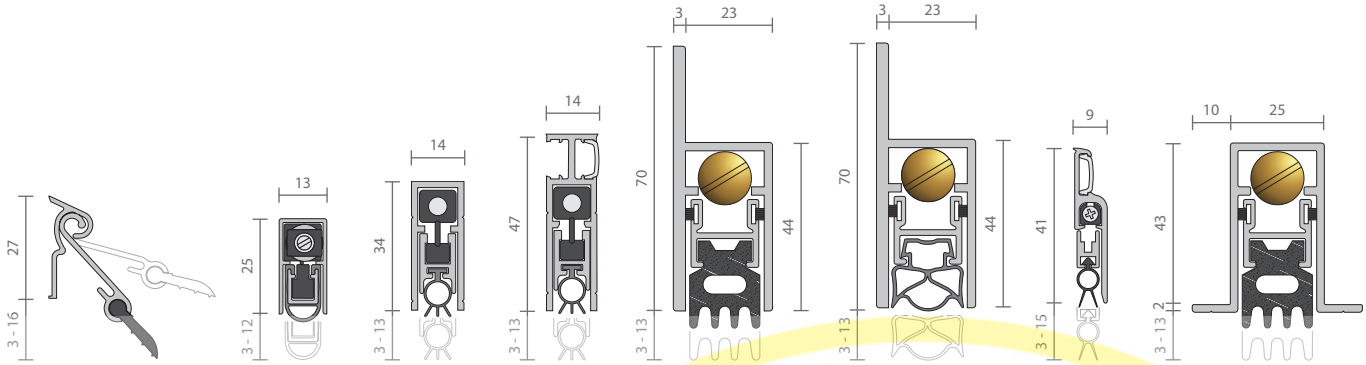
Raven Seals are designed to meet the most rigorous International Standards and Building Codes. Throughout, icons have been used to readily identify and make product selection easier. Raven Seals, in the main, have been tested to Australian, New Zealand, British, ISO and EN standards. In many cases they are the same or similar to US standards and Chinese building code requirements. Specifiers should determine the suitability of products shown or contact Raven's Technical Department for assistance.

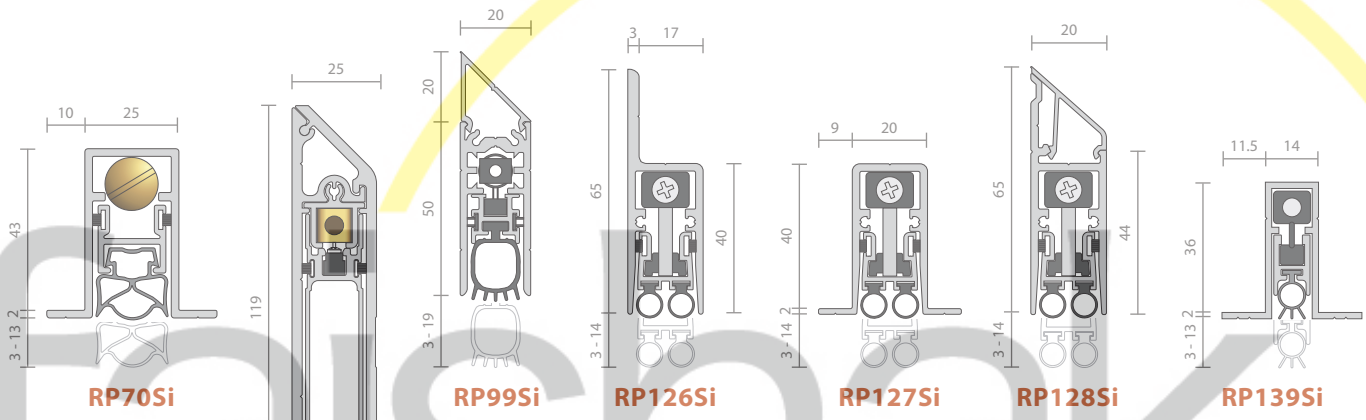
	AUS/NZ	UK/EU
Noise - Acoustic	**NCC** **Sound Transmission & Insulation;** Sect. F Parts F5.0, F5.5 (b), **Health & Amenity;** Sect. 2 Part 2.4, 02.4.6, **Sound Insulation;** F2.4.6, P2.4.6 V2.4.6, Sect. 3.8, 3.8.6 (appropriate performance requirements (a) (b)). **AS 1191 (ISO 140-3)** Measurements of airborne sound transmission loss etc., **AS/NZS 1276.1** Rating of sound insulation in buildings etc. (ISO 717-1), **AS 2253** Field measurement of the reduction in airborne sound transmission in buildings. **ISO 717-1** Rating of sound insulation in buildings. **NZ BC Compliance G6** (airborne and impact sound). **ASTM E 336, ASTM E 413**.	Building Regulations **Approved Document E**, **Building Bulletin 93** - Special acoustic conditions for schools, **BS EN ISO 140-3** Acoustics - Measurement of sound insulation in buildings and of building elements (previous BS 2750), **BS 5821** Rating the sound insulation in buildings and building elements (same as **ISO 717-1**), **BS EN 10140** Series Standards - Laboratory measurement of sound insulation.
Fire and Smoke	**NCC** **Fire Resistance;** Sect. C Parts C3, C3.0 - C3.11, Spec. C2.5, Spec. C3.4, Spec. D1.12 (d) (f), Sect. D Part D2.6,. **Smoke Hazard Management;** Sect. Part E. **Bushfire Areas;** Sect. G. Part G5. **Fire Safety;** Part 2.3, **Bushfire Areas**; Part 2.3 F2.3.4, P2.3.4, SA 3.7.4.3 (c), Table SA 3.7.4.1 (external doors). **AS 3959** Construction of building in bushfire-prone areas, **AS 1530.4** Fire resistance tests of elements of building construction, **AS 1905.1** Components for the protection of openings in fire resistant walls, **AS 1851** Routine service of fire protection systems, **AS 1530.7** Smoke control door and shutter assemblies, **AS 1735.11** Lifts, escalators and moving walks - Fire rated landing doors, **AS 6905** Smoke doors. **NZ BC Compliance C** (Fire safety), **NZS 4520** Fire resistant doorsets.	Building Regulations **Approved Document B**, **ISO 834** Fire resistance test - Elements of building construction, **ISO 3008** Fire resistance test - Door and shutter assembly, **BS EN 1634-1** Fire resistance tests for doors and shutter assemblies, **BS EN 1634-3** Smoke control test for door and shutter assemblies, **BS 5588** Fire precautions in the design, construction & use of buildings, **BS 476** Part 20 Method for determination of the fire resistance of elements of construction, **BS 476** Section 31.1 Method for measuring smoke penetration through door sets & shutter assemblies, **BS 8214** Code of practice for fire door assemblies with non-metallic leaves, **ISO 5925-1** Ambient and medium temperature leakage test, **ISO DIS 12472** Fire test - Determination of the efficiency of the intumescent seals with respect to the fire resistance of timber door assemblies, **BS EN 13501-2** Fire classification of construction products and building elements. Classification using data from fire resistance tests, excluding ventilation services.
Weather, Energy, Insects and Vermin	**NCC** **Health & Amenity;** Sect. F., **Energy Efficiency Installations;** Part I2, **Energy Efficiency - Building Sealing;** Sect. J. JP1(f), Part J3. J3.4, Part 3.12.3.3, **Bushfire Areas;** Sect. G. Part G5, **Fire Safety**; Part 2.3, **Bushfire Areas**; Part 2.3 F2.3.4, P2.3.4, SA 3.7.4.3 (c), Table SA 3.7.4.1 (external doors), **Energy Efficiency;** Sect. 2., Part 2.6 02.6 F2.6 P2.6.1(f), **Building Sealing;** Part 3.12. contents 3.12.3.3. **AS 4420** Air infiltration test, **AS 4420** Water penetration test, **AS 2047** Windows & doors in buildings, **AS 1530.7** Smoke control door and shutter assemblies, **AS 3959** Construction of building in bushfire-prone areas **NZ BC Compliance H** (energy efficiency) air tightness H1.3.1, H1.3.3.	Building Regulations **Approved Document L1 & L2**, **BS 7386**, **BS 8104**, **CIBSE TM 23** Testing of building for leakage (Part L1 & L2 requirements), **BS 5368** Methods of testing windows (various parts - air permeability, watertightness, wind resistance), **BS EN 1634-3** Smoke control test for door and shutter assemblies, **BS EN 10077-1** Thermal performance of windows, doors, shutters, **IEC 529** Degrees of protection provided by enclosures for electrical equipment, **ISO 8272** Air permeability test, **ISO 9972** Thermal insulation - Determination of building air tightness - Fan pressurisation method, **ISO 5925-1** Evaluation of performance of smoke control door assemblies (Part 1 Ambient temperature test).
Access and Mobility	**NCC** Sect. D Part D2, D2.15 and D3, D3.3 **Housing Provisions** Performance Provisions; Sect. 2. Part 2.5 (thresholds at door ways). **AS 1428** Design for access & mobility. **AS 4299** Adaptable housing. **NZ BC Compliance D** (Access routes), **NZS 4121** Design for access & mobility.	Building Regulations **Approved Document M**, 'Access and Facilities for Disabled People' and 'Accessible Thresholds in New Housing: Guidelines for House Builders and Designers'. **BS 8300** Design of buildings and their approaches to meet the needs of disabled people. Code of Practice.

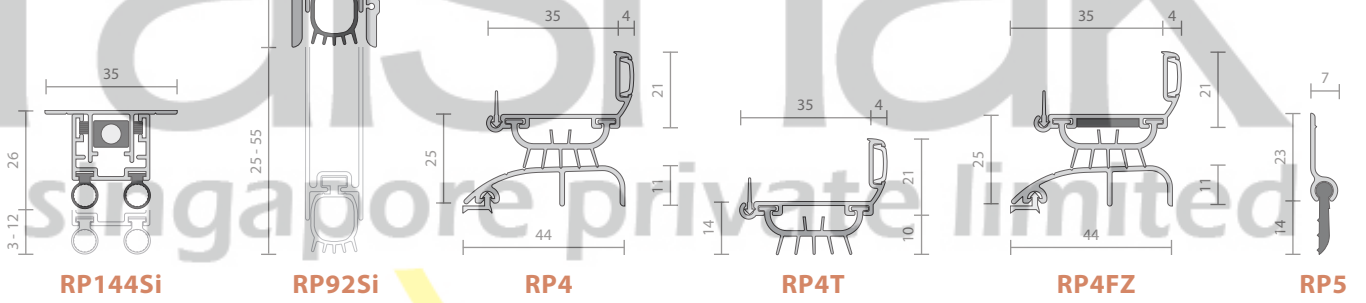
	USA	CHINA
Noise - Acoustic	**IBC** International Building Code, **ASTM E 90** Standard method for laboratory measurement of airborne sound transmission loss of door panels and door systems, **ASTM E 413** Classification for rating sound insulation, **ASTM E 336** Standard test for measurement of airborne sound insulation in buildings.	**GB 50118-2010**《民用建築隔音設計規範》 **GB/T50087-2013**《工業企業噪音控制設計規範》 **GB/T 8485-2008**《建築外窗空氣隔聲性能分級及其檢測方法》 **JGJ 57-2000**《劇場建築設計規範》 **JGJ 58-2008**《電影院建築設計規範》 **JGJ 67-2006**《辦公建築設計規範》 **JGJ 62-2014**《旅館建築設計規範》 **GB 50096-2011**《住宅 設計規範》 **GB 50073-2013**《潔淨廠房設計規範》
Fire and Smoke C M200℃ H	**IBC** International Building Code, **NFPA 101** Life safety Code, **NFPA 105** Recommended practice for the installation of smoke and draft control door assemblies, **ASTM E 2074** Standard test method for fire tests of door assemblies, including positive pressure testing of side hinged and pivoted swinging door assemblies, **UL 10B** Fire tests of door assemblies, **UL 10C** Fire tests of door assemblies under positive pressure, **UL 1784** Standard for safety for air leakage tests for door assemblies, **ASTM E 152** Methods of fire test of door assemblies, **NFPA 252** Standard method of fire tests of door assemblies, **NFPA 80** Installation standard for fire doors & windows, **ANSI/UL 263, NFPA 255, ASTM E119, NFPA 251, CAN/ULC-S101**. **ANSI/BHMA A156.22** American National standard for door gasketing and edge seal systems.	**GBJ-2006**《建築設計防火規範》 **JGJ 49-2005**《綜合醫院建築設計防火規範》 **GB 50016-2014**《高層民用建築設計防火規範》 **JGJ 39-2016**《托兒所, 幼兒園建築設計規範》 **GB 50226-2007**《鐵路旅客車站建築設計規範》 **JGJ 60-99**《汽車客運站建築設計規範》 **JGJ 86-92**《港口客運站建築設計規範》 **GB 50039-2010**《农村防火规范》 **JGJ 38-99**《圖書館建築設計規範》 **JGJ 25-2010**《檔案館建築設計規範》 **JGJ 66-2015**《博物館設計規範》 **JGJ 57-2016**《劇場建築設計規範》 **JGJ 58-2008**《電影院建築設計規範》 **JGJ 62-2014**《旅館建築設計規範》 **JGJ 41-2014**《文化館建築設計規範》 **GB 50073-2013**《潔淨廠房設計規範》
Weather, Energy, Insects and Vermin	**IBC** International Building Code, **ANSI/ASHRAE/IESNA** Standard 90 P energy conservation in new building design Section 4, **ASTM E283** Rate of air leakage through exterior windows, curtain walls and doors, **NFRC 400** Procedure for determining fenestration product air leakage.	**GB 50352-2005**《民用建築設計通則》 **GB 50300**《建筑工程施工质量验收统一标准》 **GB 50210**《建筑装饰装修工程质量 验收规范》 **JGJ 102-96**《玻璃幕牆工程技術規範》 **GB/T 7106-2019**《建築外窗抗風壓分級及檢測方法》 **GB 7108-2002**《建築外窗雨水滲透性能分級及檢測方法》 **GB 50096-2011 (2003**版)《住宅 設計規範》 **JGJ 26-2018**《严寒和寒冷地区居住建筑节能设计标准》 **GB 50176-93**《民用建築熱工設計規範》 **JGJ 38-99**《圖書館建築設計規範》 **JGJ 25-2010**《檔案館建築設計規範》 **JGJ 66-2015**《博物館設計規範》 **JGJ 41-2014**《文化館建築設計規範》 **GB 50073-2013**《潔淨廠房設計規範》
Access and Mobility	**IBC** International Building Code, Residential Code & ADAAG, **ANSI 117** Building access for people with disability, **ANSI/BHMA A156.21** American National standard for Thresholds.	**88**建標字第**204**號《方便殘疾人使用的城市道路和建築物設計規範》

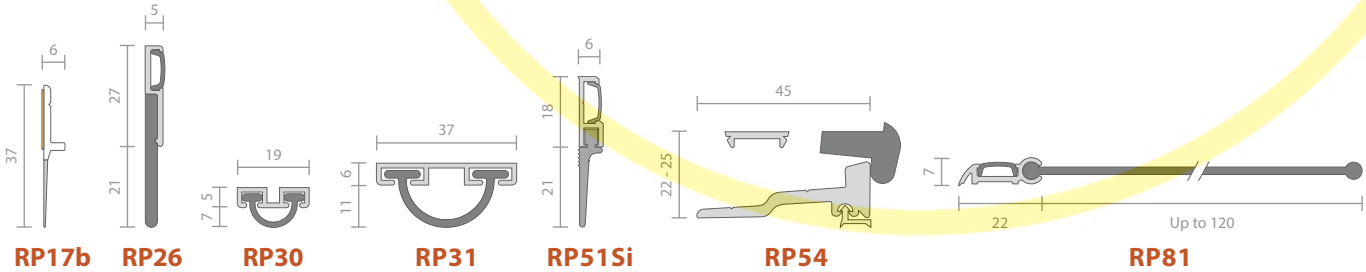
Quick Product Reference

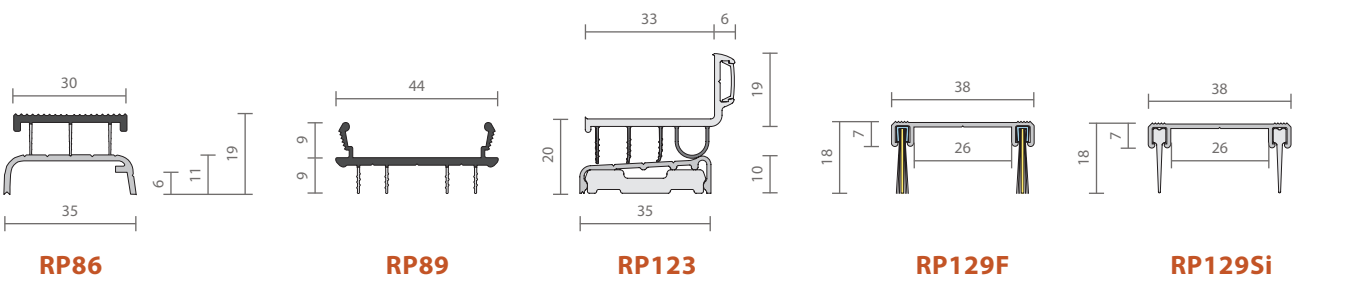
Door Bottom Seals p.48





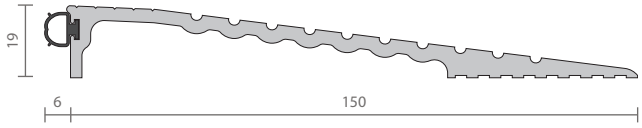




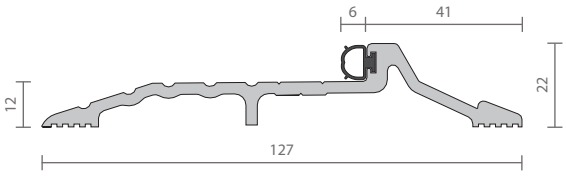


Quick Product Reference

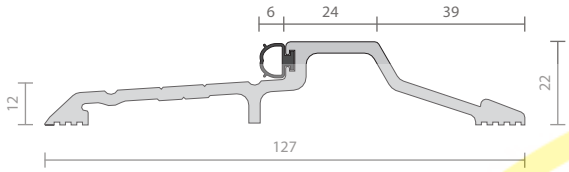
Threshold Plate Seals p.66



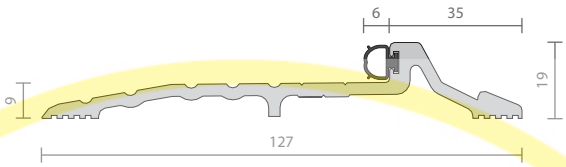
RP97Si



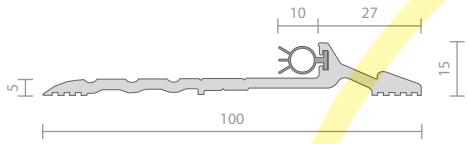
RP109Si



RP110Si

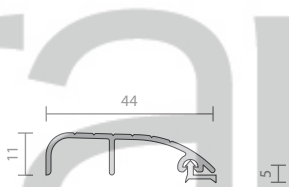


RP111Si

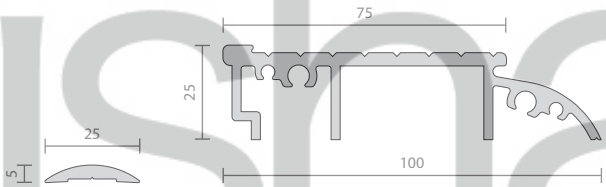


RP117Si

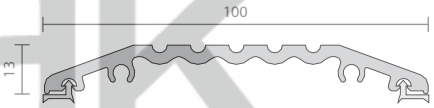
Threshold Plates p.70



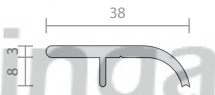
RP4b



RP13 **RP18**

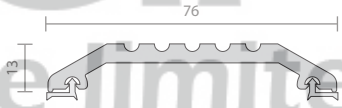


RP19

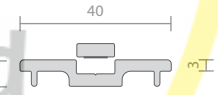


RP27

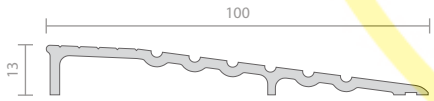
RP28



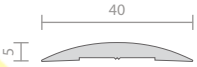
RP29



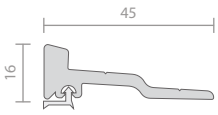
RP66



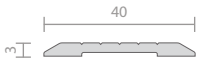
RP77



RP82

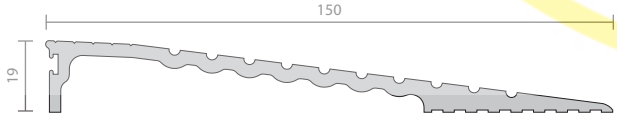


RP91

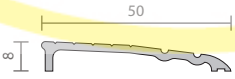


RP95

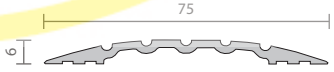
RP96



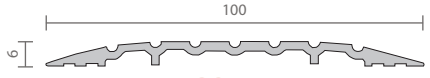
RP98



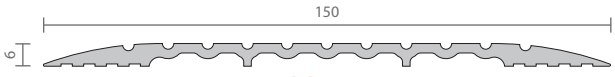
RP112



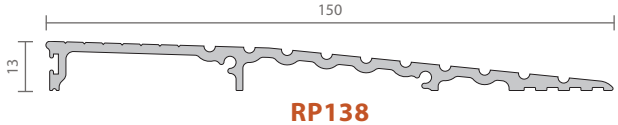
RP115



RP116



RP137

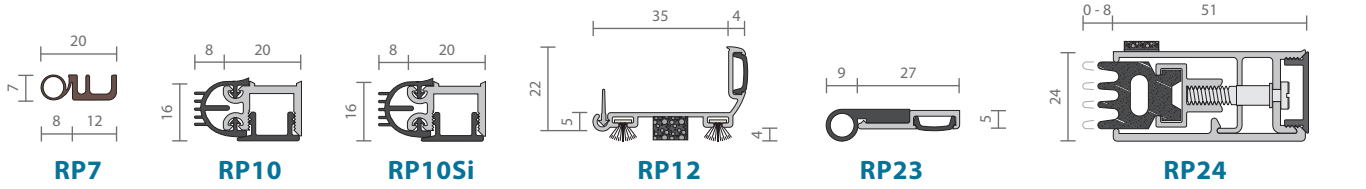


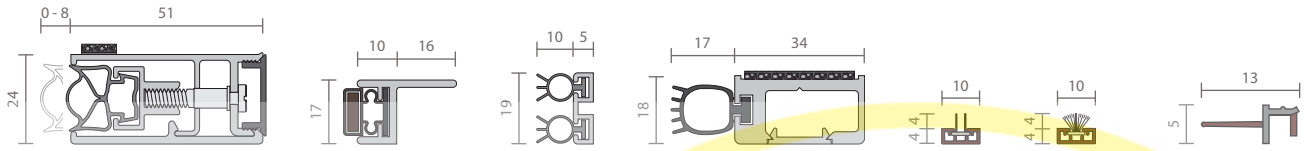
RP138

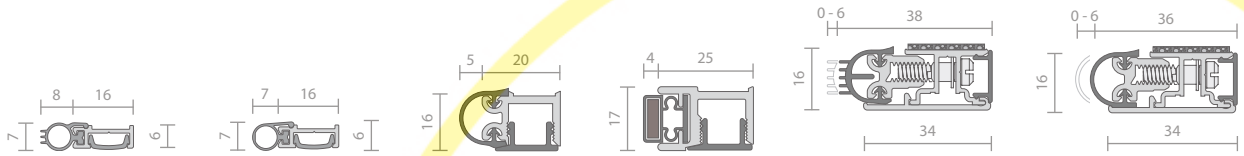
RP151 NEW

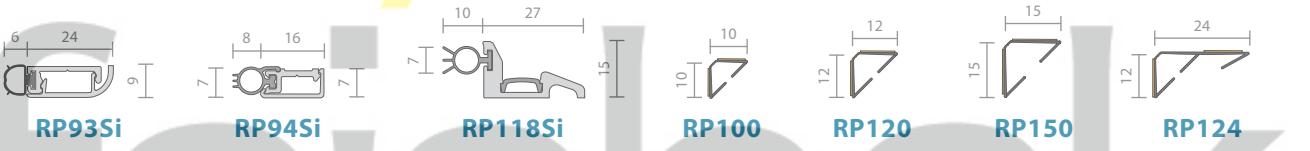
Quick Product Reference

Door Frame / Perimeter Seals p.82

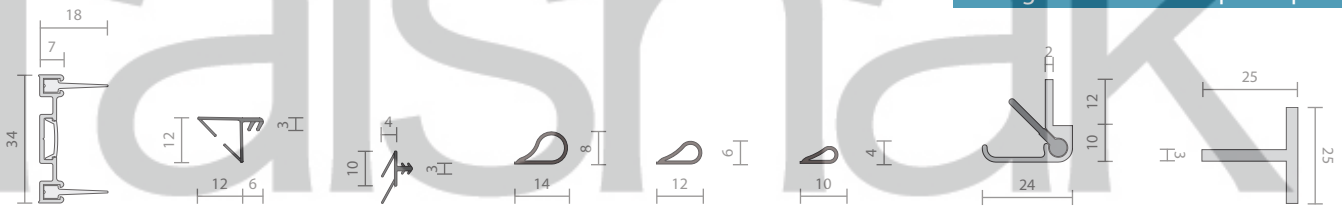


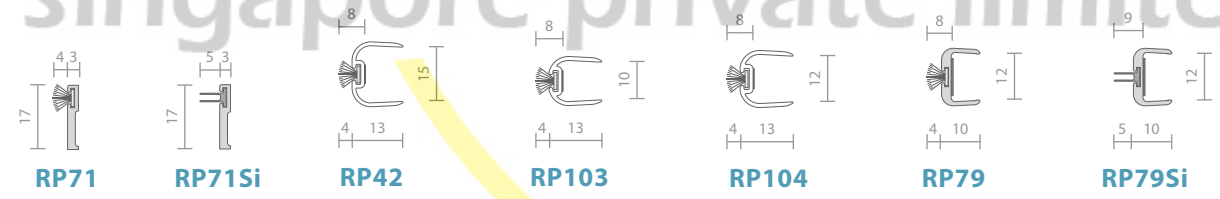


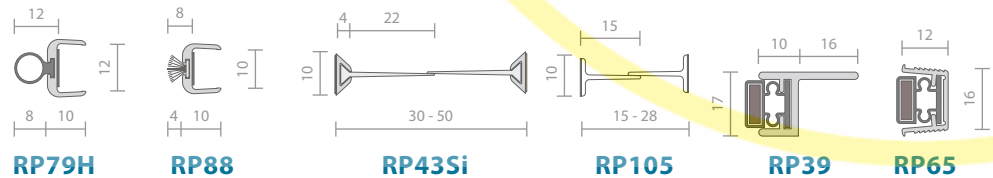




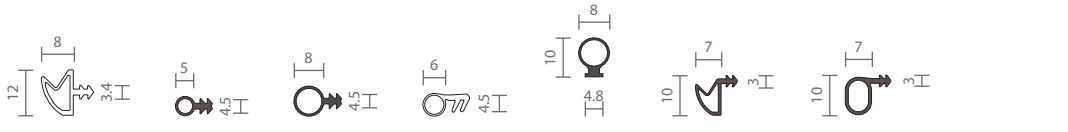
Astragals p.98 - p.103

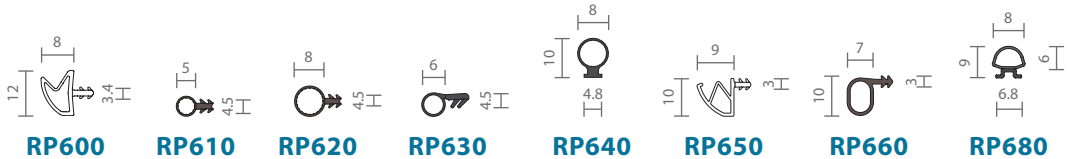






Weather Stripping - Silicon RP500 Series and TPE RP600 Series p.104 - 106

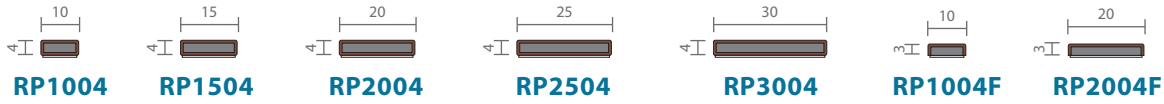


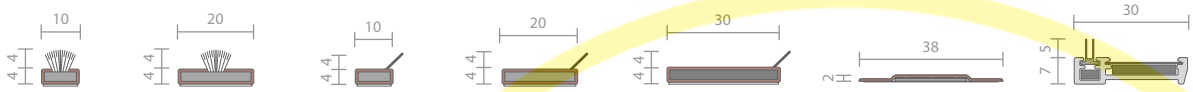


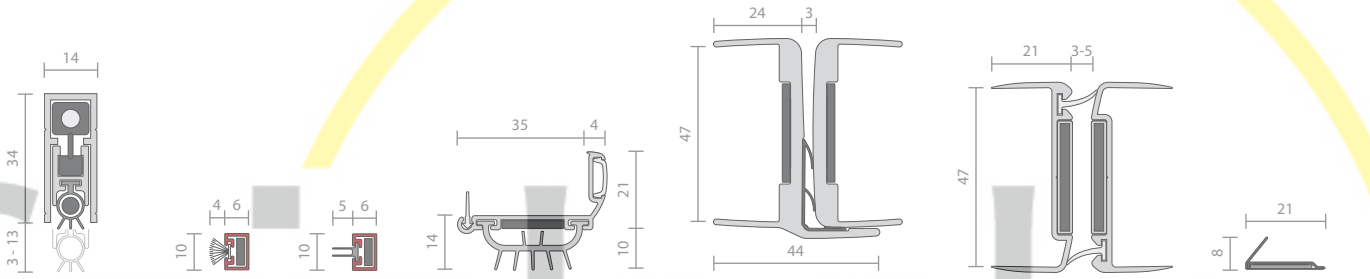
Quick Product Reference

Self-adhesive Seals p.107

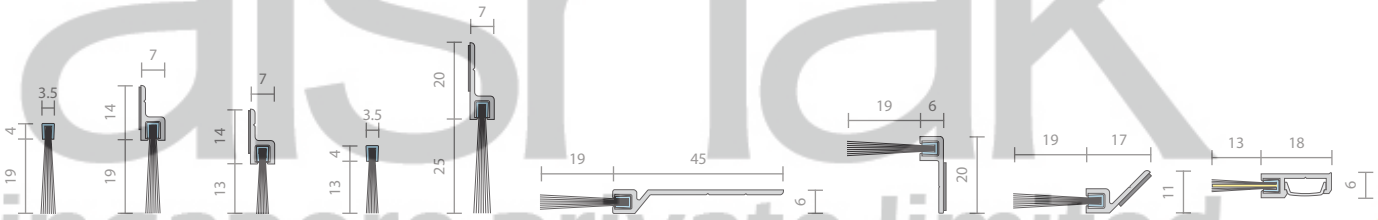
Intumescent Fire Seals p.108

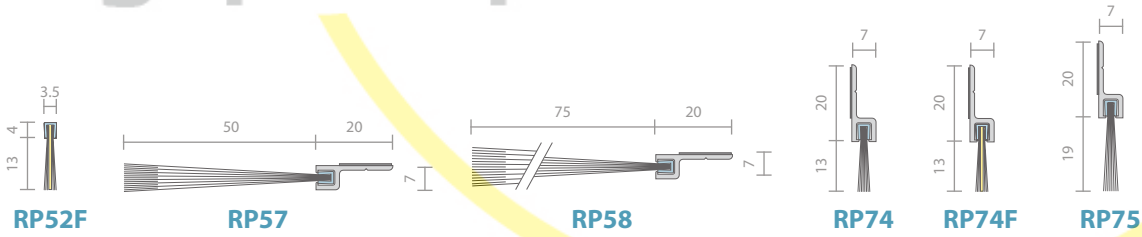




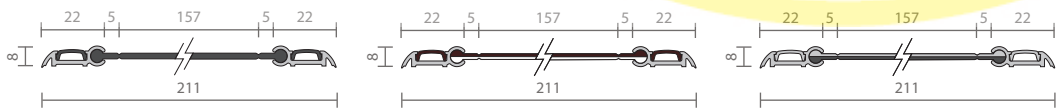


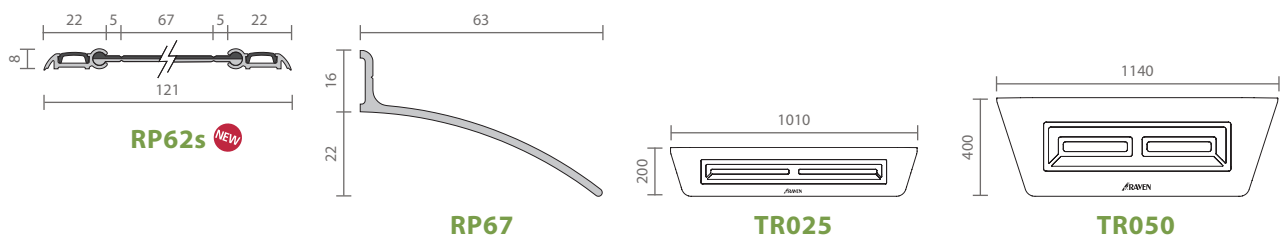
Brush Strip Seals p.117





Complementary Products p.124





Product Index

Guarantee

Raven seals are guaranteed for 2 years against defects in materials and workmanship, provided seals are fitted in accordance with manufacturer's specifications. Defective goods identified by Raven will be replaced. However, NO claim for work done thereon or damage incurred will be allowed.

Self-adhesive backed; closed cell and open cell foam tape seals are not guaranteed. Defective goods identified by Raven may be replaced. Experience has shown that even for one and the same objective, the exact requirements may vary due to site and environmental conditions that are outside Raven Products control; this includes the surfaces to which self-adhesive products are being installed.

All technical data and recommendations, although based upon our research and believed to be reliable, is given in good faith but without warranty. It is understood that users will independently determine the suitability of all products shown or specified herein for their purposes and as such Raven Products Pty. Ltd. accepts no liability.

Copyright ©

Raven Products Pty. Ltd. reserves the right to alter, delete or make obsolete any product shown in this catalogue or website, without prior notice.

Disclaimer

In this catalogue there are some references to various national and international standards and building codes. No Raven copyright is implied or intended. References are a guide only. It is understood that users of this catalogue will obtain the most current building code and or standards for their intended purposes at all times.

Images

Raven Products have been used in thousands of projects world-wide. Pictured on the front cover from left to right are: Adelaide Botanic High School, South Australia and Ritz-Carlton, Western Australia.

RAVEN®
Door & Window
Sealing Systems

Raven Products Pty. Ltd.

Head Office and Factory
18 - 22 Aldershot Road
Lonsdale, South Australia 5160
Australia

PO Box 67
Lonsdale, South Australia 5160
Australia

T +61 8 8384 5455

Sales Enquiries
T 1800 888 123 Free call anywhere in Australia
E sales@raven.com.au

Technical Advice
E tech.advice@raven.com.au

raven.com.au

Hong Kong and China
T +852 2987 6257
E cs.hk@ravensealing.com

India
T +91 87545 04448
E cs.in@ravensealing.com

Singapore
T +65 6543 6810
E cs.sg@ravensealing.com

United Arab Emirates
T +971 54 545 4133
E cs.me@ravensealing.com

V1.0