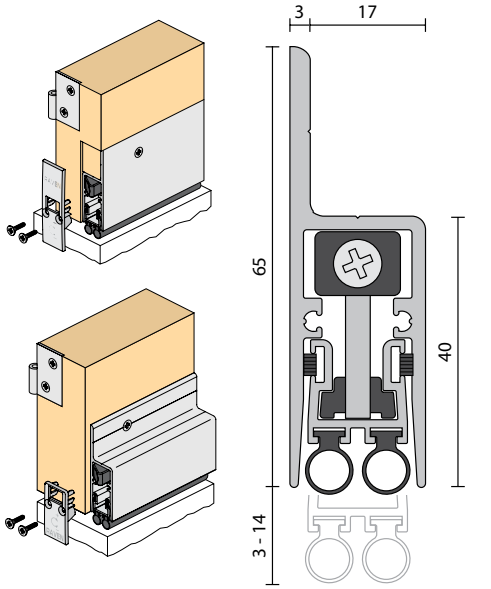
RP126Si

RAVEN

FITTING INSTRUCTIONS

Automatic Door Bottom Seal
Anti-microbial Silicon Gasket



CLASSIFIED UL R37913

Category J door bottoms are intended for application to/with Classified hollow metal and steel covered composite type fire doors rated up to and including 3 hrs. and wood and plastic covered composite and wood core fire doors rated up to and including 1-1/2 hrs.

DETAILS

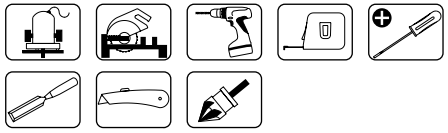
LOCATION
Single and double butt hinged doors.

MIN/MAX GAP
3mm to 14mm.

SEAL MATERIAL
Silicon Rubber.

REPLACEMENT SEAL
RP3126Si.

TOOLS



DESCRIPTION

RP126Si is a heavy duty door bottom seal, with an extruded silicon sealing component that conforms to the 200°C requirement of NCC S12C4. The seal is operated automatically by pressure against the door jamb on the adjustment block. It seals when the door closes and retracts automatically when the door is opened. It is self levelling. RP126Si has been approved on proprietary fire doors. Meets leakage rates specified in AS 6905, BS EN 13501-2 "Sa" & "Sm". Tested to AS 1530.7, BS EN 1634-3.

NOTES

- Recommended for double doors. If using rebated meeting stiles allow for thickness of seal **(FIG.5) PAGE 3**.
- RP126Si may be face mounted or semi-morticed.
- For semi-morticed option, door should be prepared in advance. **(FIG.4) PAGE 3**
- Do not cut RP126Si shorter than the length recommended as this may affect the seal operation and void warranty.
- Determine hand of door **before cutting** RP126Si to size.
- Cut back latch end only.
- If doors are exposed to weather, any untreated exposed timber should be sealed with a wood primer.
- **CAUTION:** Do not withdraw inner extrusion further than outer housing since this may damage mechanism. **(FIG.3) PAGE 2**
- Do not use power or battery driven tools to fit escutcheon plates.

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Patented.

Designed and produced by Raven Products Pty Ltd (Australia)

Raven Products is an ISO9001 QMS company certified by SGS

Made in P.R.C. by Raven

Part No. ZSDSRP126Si

REVERSING INTERNAL MECHANISM

FOR HAND OF DOOR

STEP 1 Remove self tapping screw from hole **1**. **(FIG.1)**

STEP 2 Pull on adjustment block and slide inner assembly from housing. **CAUTION:** Be gentle with internal mechanism.

STEP 3 Turn inner assembly around and replace from opposite end.

STEP 4 Replace self tapping screw into hole **2**. This secures inner assembly. **(FIG.1)** Install plug supplied to blank hole **1**.

STEP 5 Operate RP126Si by hand to check for correct assembly.

STEP 6 Wind adjustment screw anti-clockwise until it stops. **Note:** Do not overtighten as this may damage components and void warranty.

MINIMUM CUT BACK LENGTHS

WITHOUT ESCUTCHEON PLATES

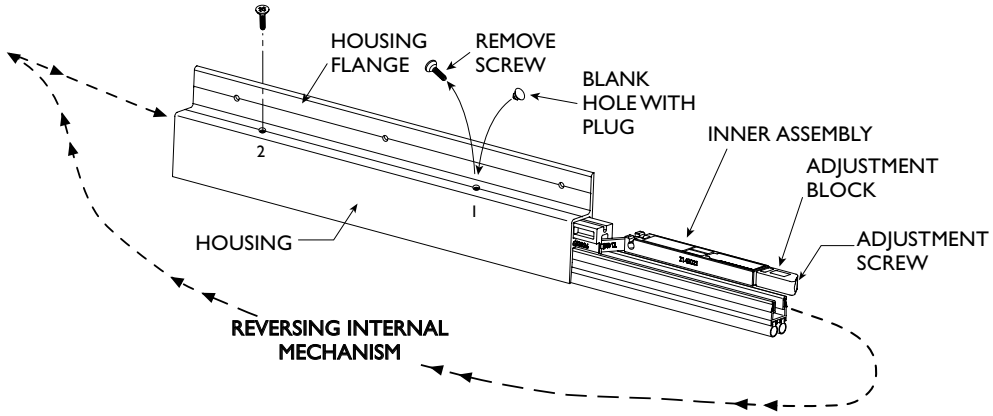
Nominal Seal Lengths:	Cuts back to:
1500mm	1220mm
1220mm	1070mm
1070mm	920mm
920mm	820mm
820mm	600mm
600mm	305mm

WITH ESCUTCHEON PLATES

Total length of product is increased by 4mm.

Nominal Seal Lengths:	Cuts back to:
1504mm	1224mm
1224mm	1074mm
1074mm	924mm
924mm	824mm
824mm	604mm
604mm	309mm

FIG. 1



FACE MOUNT INSTALLATION

STEP 1 Measure the distance between the door stops. **(FIG.2)** Check hand of door and seal orientation. Refer Reversing Internal Mechanism **(FIG.1) PAGE 1** to change.

STEP 2 To allow for door opening clearance on latch side and clearance for escutcheon plates, machine cut RP126Si shorter by dimension "a" **(FIG.2)**. Cut latch end only.

Seal Unit	FIG.2 DIM "a"
600mm	7mm
820, 920 & 1070mm	5mm
1220mm & 1500mm	4mm

STEP 3 To allow for operating clearance, file cut end of the inner extrusion 1mm shorter on the latch side. Cut gasket and inner seal with a sharp utility knife.
CAUTION: Do not withdraw inner extrusion further than outer housing since this may damage mechanism. **(FIG.3)**

STEP 4 Drill and countersink mounting holes in housing flange to suit largest screws supplied. **(FIG.3 & FIG.4)**

STEP 5 Fit escutcheon plates with smallest screws supplied (do not use a powered driver). **(FIG.4)**
Note: Pull down inner extrusion by a few millimetres when fitting escutcheon plate. **(FIG.5)**

STEP 6 Wind adjustment screw anti-clockwise until it stops. **(FIG.3) Note:** Do not overtighten as this may damage components and void warranty.

STEP 7 With door closed, position RP126Si hard against **hinge** side stop and level with door bottom. Adjustment screw must be on hinge side. **(FIG.2 & FIG.4)**

STEP 8 Screw fix with largest screws supplied.

STEP 9 For soft timber stops, position striker button where adjustment block meets door stop. **(FIG.6)**

STEP 10 Pull **adjustment block** out from housing to orientate the **adjustment block** correctly. **(FIG.7)**

STEP 11 Open door and turn adjustment screw clockwise one turn.

STEP 12 Close door gently and observe the action of the RP126Si. The seal should engage the sill lightly. For adjustment, only turn the adjustment screw **clockwise** half a turn at a time, then close door to check seal travel before further adjustment. Turning screw **clockwise** increases seal travel, **anti-clockwise** decreases seal travel. Repeat this step until the gaskets contact the sill along the full length of the product.

FIG. 2

PLAN VIEW

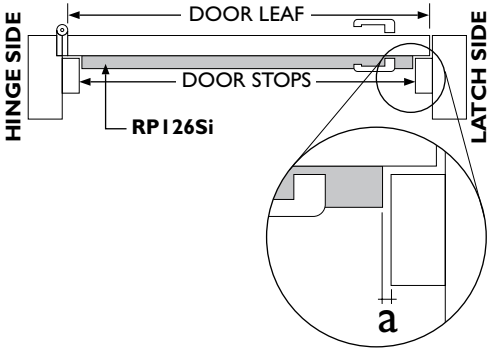


FIG. 3

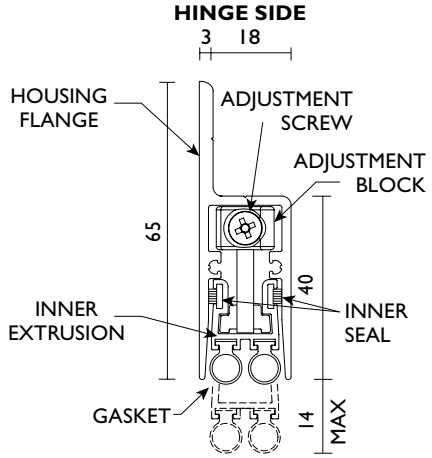


FIG. 4

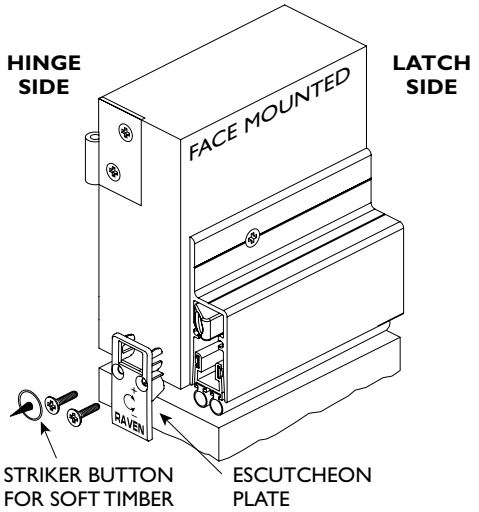
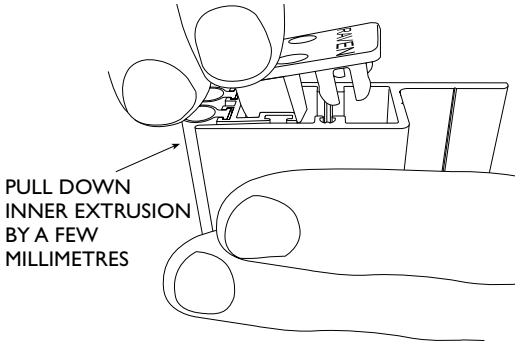


FIG. 5



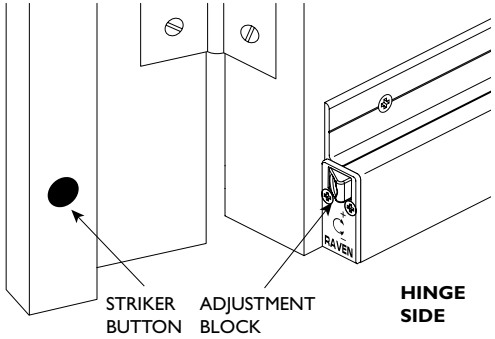
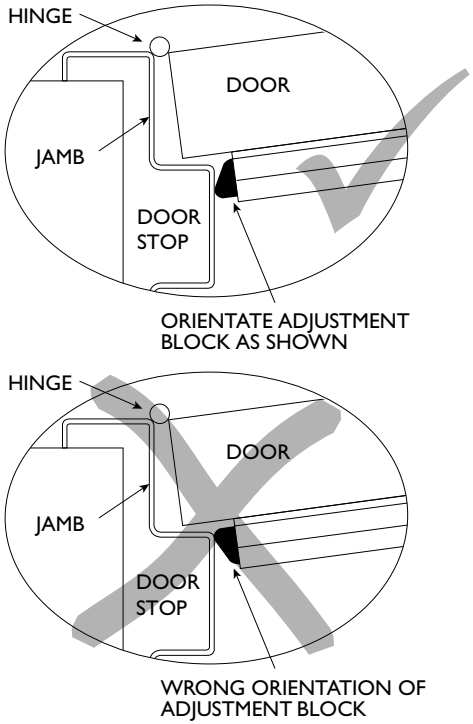


FIG. 7



SEMI-MORTICE INSTALLATION

STEP 1 Prepare door as shown **(FIG.4 & FIG.5)** Check hand of door. Refer Reversing Internal Mechanism **(FIG.1) PAGE 1** to change.

STEP 2 Measure full width of door leaf. **(FIG.2)**

STEP 3 Machine cut RP126Si less 4mm to allow morticing of escutcheon plates. Cut back latch side only. **(FIG.2 & FIG.4)** Cut gasket and inner seal with a sharp utility knife. **(FIG.3)**

STEP 4 To allow for operating clearance, file cut end of the inner extrusion 1mm shorter on the latch side. **CAUTION:** Do not withdraw inner extrusion further than outer housing since this may damage mechanism. **(FIG.3)**

STEP 5 Drill and countersink mounting holes in housing flange to suit largest screws supplied. **(FIG.3 & FIG.4)**

STEP 6 Wind adjustment screw anti-clockwise until it stops. **(FIG.3) Note:** Do not overtighten as this may damage components and void warranty.

STEP 7 To allow for escutcheon plates, **centre** RP126Si in door bottom with adjustment screw on hinge side. Screw fix with the largest screws supplied. **(FIG.4)**

STEP 8 Fit escutcheon plates with the smallest screws supplied (do not use a powered driver). **(FIG.4)** Hang door.
Note: Pull down inner extrusion by a few millimetres when fitting escutcheon plate. **(FIG.6)**

STEP 9 For soft timber stops, position striker button where adjustment block meets door stop. **(FIG.7)**

STEP 10 Pull **adjustment block** out from housing to orientate the **adjustment block** correctly. **(FIG.8)**

STEP 11 Open door and turn adjustment screw clockwise one turn.

STEP 12 Close door gently and observe the action of the RP126Si. The seal should engage the sill lightly. For adjustment, only turn the adjustment screw **clockwise** half a turn at a time, then close door to check seal travel before further adjustment. Turning screw **clockwise** increases seal travel, **anti-clockwise** decreases seal travel. Repeat this step until the gaskets contact the sill the full length of the product.

FIG. 2

PLAN VIEW

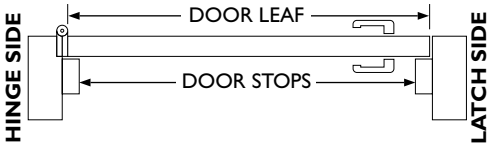


FIG. 3

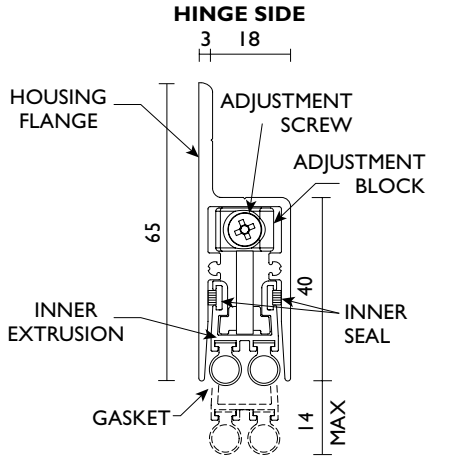


FIG. 4

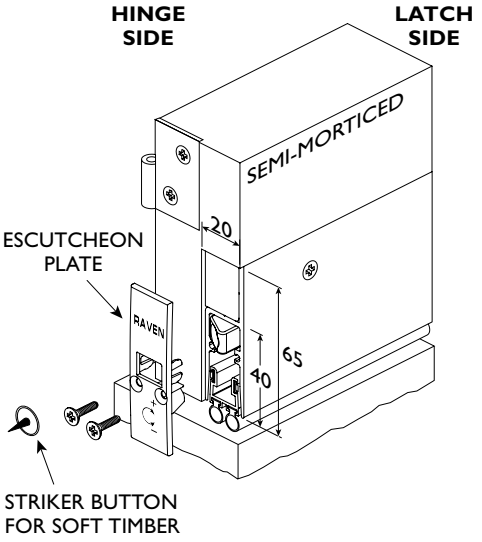


FIG. 5

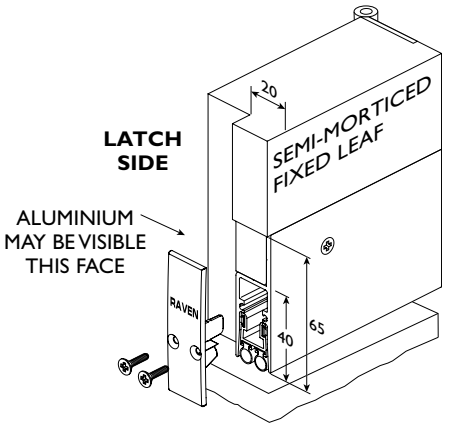


FIG. 6

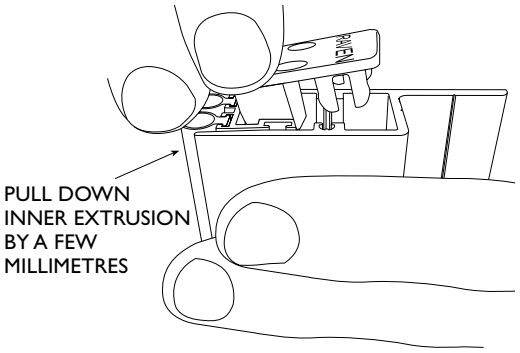


FIG. 7

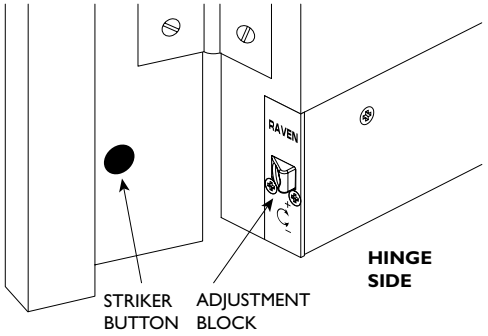
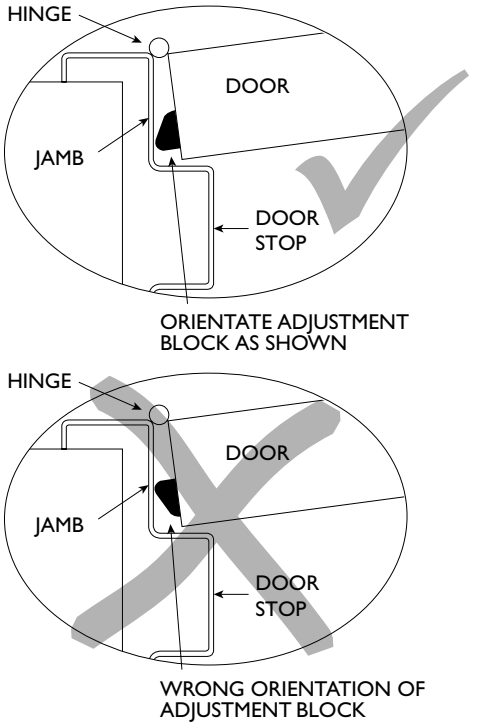
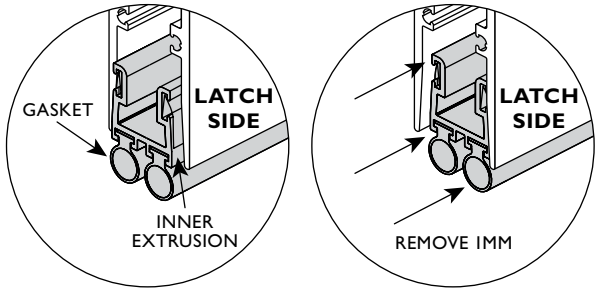
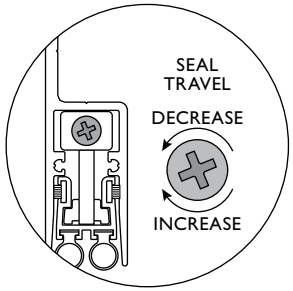


FIG. 8



PROBLEM	SOLUTION	
The seal does not drop evenly/correctly.	**SOLUTION 1** First, repeat directions in: **STEP 3**, FACE MOUNT INSTALLATION, **STEP 4**, SEMI-MORTICE INSTALLATION. Remove latch side escutcheon plate, and file cut end to allow for operating clearance, file cut end of the inner extrusion 1mm shorter on the latch side. Cut gasket and inner seal with a sharp utility knife. Re-fit latch side escutcheon plate and open and close door to check correct sealing. CAUTION: Do not withdraw inner extrusion further than outer housing since this may damage mechanism: **FIG.3**, FACE MOUNT INSTALLATION & SEMI-MORTICE INSTALLATION.	
	SOLUTION 2 Repeat directions in **STEP 12**, FACE MOUNT INSTALLATION & SEMI-MORTICE INSTALLATION. Turning screw **clockwise** increases seal travel, **anti-clockwise** decreases seal travel. Repeat this step until the gaskets contact the sill along the full length of the product.	
	CONTACT RAVEN SUPPORT In rare cases, the **CONNECTING ROD** on the LATCH SIDE of the seal can break. Replacing the rod is a straight-forward process. Contact Raven at **tech.advice@raven.com.au** to request a replacement part.