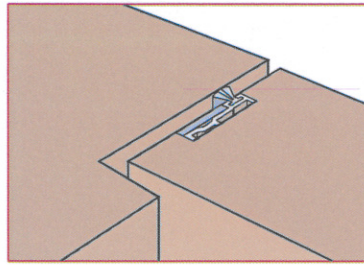


# ENVIROGRAF® PRODUCT GROUP 76

## REBATED INTUMESCENT FIRE AND SMOKE SEALS WITH ALUMINIUM HOLDER



### DESCRIPTION

An aluminium holder with intumescent fire and smoke seal, fitted into rebated fire doors or frames.

**ES/SM30:** 30 minutes fire-rated version, comprising an 7mm deep x 9mm wide x 2200mm long aluminium holder with a choice of brush or straight rubber seal. The brush smoke seals are available in black, brown, grey, or white and 5mm, 7mm, or 10mm high. The straight rubber seal is 4mm or 7mm high.

**ES/SM60:** 60 minutes fire-rated version comprising a 6mm deep x 20mm wide x 2200mm long aluminium holder with intumescent facing in aluminium with grey brush, black with black brush, brown with brown brush, red with grey brush, or white with white brush colours. Brush and rubber seal sizes as above.

**ES/SM60/P:** A plastic holder with intumescent material, 7mm deep x 20mm wide x 2200mm long in aluminium, black, brown, red, and white colours. For fitting into the rebate opposite

**ES/SM60**, providing increased protection and sealing efficiency.

### USE

The holder is rebated into wooden fire doors or frames, maintaining integrity and restricting the passage of fire and smoke in the event of a fire.

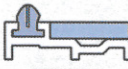
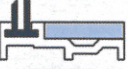
### PERFORMANCE

This product is an aluminium holder that houses Envirograf® Product 100, giving 30 or 60 minutes integrity to BS476 Part 22 (1987) and 69 minutes integrity to BS476 Part 23 (1987).

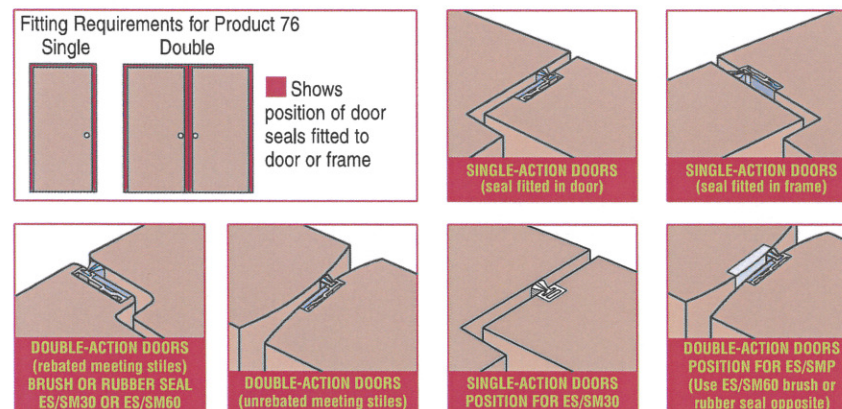
### ORDERING REFERENCES:

PATENTED

**ES/SM30/B** Aluminium holder 7x9x2200mm with brush seal  
**ES/SM30/S** Aluminium holder 7x9x2200mm with straight rubber seal  
**ES/SM60/B** Aluminium holder 6x20x2200mm with brush seal  
**ES/SM60/S** Aluminium holder 6x20x2200mm with straight rubber seal  
**ES/SM60/P** Plastic holder 7x20x2200mm opposite ES/SM60 seals ONLY  
 State holder colour/finish and brush colour if necessary  
 For single- and double-action doors, the straight rubber seal is preferred

|                                                                                     |                                                                                     |                                                                                     |                                                                                       |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|  |  |  |  |
| <b>ES/SM60/B</b><br>5/7/10mm Seal                                                   | <b>ES/SM60/S</b><br>5/7/9mm Seal                                                    | <b>ES/SM60/P</b><br>Plastic Strip Only                                              | <b>ES/SM30/S</b><br>5/7/9mm<br>(brush seal available)                                 |

**Important: 1-1½mm of the brush or rubber seal is held within the holder. Brush with fin is always ½mm higher than regular brush. Make allowance for this when specifying.**



Also used for sliding doors and windows. Plastic coloured hinge plugs filled with intumescent are available

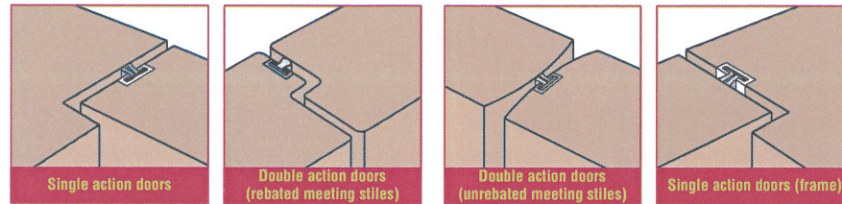
### FITTING INSTRUCTIONS FOR ENVIROGRAF® PRODUCT 76 REBATED FIRE AND SMOKE SEALS

**ES/SM60:** fit the aluminium profile into the rebate and fix with the nails supplied. Peel off the backing strip from the intumescent finishing piece and adhere it to the aluminium holder, thus hiding the heads of the fixing nails.

**ES/SM60/P & ES/SM30:** peel off the backing strip from the profile and adhere into the rebate.

# ENVIROGRAF® PRODUCT GROUP 100

## REBATED INTUMESCENT FIRE & FIRE/SMOKE SEALS IN TWO TYPES



### DESCRIPTION

Envirograf® Product 100 is available in two types of rebated seal (standard and new push-fit). These can be supplied with or without smoke seals and in a range of sizes and two lengths (1050mm and 2100mm). They are fitted with self-adhesive backing to adhere into the rebate. Smoke seals can be either brush or rubber. NB: as smoke can kill before fire, it is always best to fit intumescent seals with smoke seals.

**Save time with the new push-fit type of seal**, designed with ease of maintenance in mind. Decorators can remove seals for decorating and replace them when finished. Joiners can remove the seals from tightly-fitting doors to plane the door edge and cut the rebate deeper. Rebating examples: both the 10x4mm 30 minutes seal and the 15x4mm 60 minutes seal can have a rebate up to 6mm deep. Although the seal is a push-fit type, it cannot be pulled out except from the top or bottom. Adhesive is not needed. Intumescent seals are supplied with a plain front and fire and smoke seals can have brush or rubber seals.

### USE

Used for fitting to doors, door frames, and windows. Once fitted, the plastic facing of the seals can be painted, although the brush or rubber smoke seal must NOT be painted.

### PERFORMANCE

This product has been tested in accordance with BS476 Part 23 (1987). An integrity of up to 69 minutes was achieved. Product 100 has also been included in many successful tests with BS476 Parts 20 and 22 (1987), achieving an integrity of 40 and 68 minutes protection. Also tested to European Standard EN1634-1 (2000) for 68 minutes.

### ORDERING REFERENCES:

| Ref                                                  | Fire Seal   | Smoke Seal      | Depth | Width | Protection       |
|------------------------------------------------------|-------------|-----------------|-------|-------|------------------|
| <b>ORIGINAL STYLE 1050mm &amp; 2100mm LENGTHS</b>    |             |                 |       |       |                  |
| IS/12                                                | Intumescent | None            | 4mm   | 12mm  | Up to 30 minutes |
| IS/12/S                                              | Intumescent | Brush           | 4mm   | 12mm  | Up to 30 minutes |
| IS/13                                                | Intumescent | None            | 3mm   | 10mm  | Up to 30 minutes |
| IS/13/S                                              | Intumescent | Brush           | 3mm   | 10mm  | Up to 30 minutes |
| IS/14                                                | Intumescent | None            | 4mm   | 10mm  | Up to 30 minutes |
| IS/14/S                                              | Intumescent | Brush           | 4mm   | 10mm  | Up to 30 minutes |
| IS/14/AS                                             | Intumescent | Angled Rubber   | 4mm   | 10mm  | Up to 30 minutes |
| IS/14/SS                                             | Intumescent | Straight Rubber | 4mm   | 10mm  | Up to 30 minutes |
| IS/15                                                | Intumescent | None            | 3mm   | 15mm  | Up to 60 minutes |
| IS/15/S                                              | Intumescent | Brush           | 3mm   | 15mm  | Up to 60 minutes |
| IS/15/4/S                                            | Intumescent | Brush           | 4mm   | 15mm  | Up to 60 minutes |
| IS/24                                                | Intumescent | None            | 4mm   | 20mm  | Up to 60 minutes |
| IS/24/S                                              | Intumescent | Brush           | 4mm   | 20mm  | Up to 60 minutes |
| IS/24/AS                                             | Intumescent | Angled Rubber   | 4mm   | 20mm  | Up to 60 minutes |
| IS/24/SS                                             | Intumescent | Straight Rubber | 4mm   | 20mm  | Up to 60 minutes |
| <b>★ ★ ★ NEW PUSH-FIT STYLE 2100mm LENGTHS ★ ★ ★</b> |             |                 |       |       |                  |
| CIS14/30                                             | Intumescent | None            | 5mm   | 10mm  | Up to 30 minutes |
| CIS14/B30                                            | Intumescent | Brush Seal      | 5mm   | 10mm  | Up to 30 minutes |
| CIS14/S30                                            | Intumescent | Straight Rubber | 5mm   | 10mm  | Up to 30 minutes |
| CIS15/60                                             | Intumescent | None            | 5mm   | 15mm  | Up to 60 minutes |
| CIS15/B60                                            | Intumescent | Brush Seal      | 5mm   | 15mm  | Up to 60 minutes |
| CIS15/S60                                            | Intumescent | Straight Rubber | 5mm   | 15mm  | Up to 60 minutes |

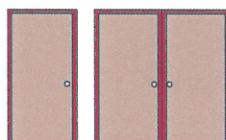
Brush smoke seals, where fitted, are 5mm standard (black, brown, grey, or white)

Standard range holders are brown or white (other colours may be available – please ask)

**NB:** Approximately 2mm of seal is contained inside the holder. Brush with fin is ½mm higher than brush with no fin.

#### Fitting Requirements for Product 100

Single Double



Shows position of door seals fitted to door or frame

The new push-fit seal is not easy to take out, except by pulling at the top or bottom (for maintenance). Ideal for use when repainting a door or planing a door edge. Rebate 5-6mm deep.

