

# Intumescent Fire & Smoke Seals



## SURFACE-MOUNTED INTUMESCENT/SMOKE SEALS FOR DOORS

### INTRODUCTION

When fire strikes, gaps around doors are a perfect escape route for the fire to travel, therefore it is crucial to halt the spread of flame and smoke by fitting Intumescent Door Seals. Intumescent surface-mounted seals offer an easy and speedy solution to this problem. Below are some of the key benefits offered by these seals:

- No rebating or drilling needed
- Labour cost-saving
- Only requires a 3½mm gap at head and closing edge and 1mm at hinge edge of door
- Available in a range of colours and wood veneer finishes
- Available in sets for single or double doors
- Can be fitted directly over hinges with no hinge binding
- An alternative version with twin rubber blades is available for larger gaps and distorted doors
- Independently tested to BS476 Part 22 (1987)
- 60 minutes of fire integrity – even with a gap of 11mm at the head of the door!
- Intumescent paper supplied for locks
- Supplied with “FIRE DOOR – KEEP SHUT” self-adhesive labels and panel pins

Fitting these seals will greatly reduce the risk of serious injury and minimise fire damage, preventing fire and smoke from penetrating into escape routes. Firewise is your one-stop shop for passive fire prevention products, from door upgrades to complete refurbishment and new building fire solutions.

### DESCRIPTION

A surface-mounted intumescent fire seal or fire/smoke seal available in black, brown, red, white, and real wood veneer finishes. No routing is necessary. Supplied with intumescent paper for use around lock and hinge areas and two labels printed “Fire Door – Keep Shut”.



Step 1: Peel off backing



Step 2: Press to fasten

Step 3: Panel pins finish

### USE

This product can be fitted to door frames in minutes. A 3.5mm or greater gap down the closing stile and across the door head is all that is required. Seals fit directly over hinges with no hinge bind and no special gap is necessary on hinge side.

Once fitted, the face of the seal can be painted, although the brush smoke seal must NOT be painted. If the brush seal is painted in error, it is easy to replace. Pins are supplied for pushing into the brush seal, although the brush has a self-adhesive strip at the back.

### PERFORMANCE

In a test on an old door with a head gap between 7mm and 11mm, the seal just expanded and remained in place for the whole test. Tested to BS476 Part 22 (1987), achieving an integrity of up to 66 minutes with an 11mm gap at the head of the door.

The intumescent strips included have also been successfully tested to BS476 Part 23 (1987).

### ORDERING PREFERENCES

**ES/SDS** for single door sets  
**ES/DDS** for double door sets  
**NS/SDS** for single door sets  
**NS/DDS** for double door sets

(ES sets are fire/smoke seals, but NS sets are fire seals only).

State whether rebated or open stiles on double doors and the finish required.

Packs are supplied with intumescent paper for use in lock areas and labels printed “Fire Door – Keep Shut”.

If the gap at the closing stile and across the head of the door is less than 3mm, request packs containing only 1mm thick ES/30/PS seals.

Single 1050mm fire/smoke seal strips can be supplied as follows:

ES/25/HS for head and closing stile – 2.5mm thick x 30mm wide x 5mm brush  
ES/30/PS for hinge side – 1mm thick x 30mm wide x 3mm brush.

Single 1050mm fire seal strips (no smoke seal) can be supplied as follows:

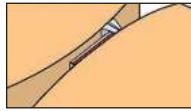
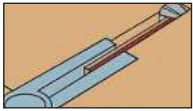
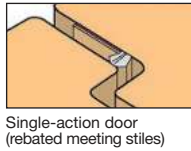
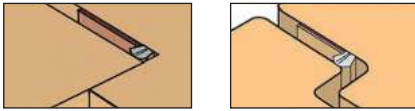
NS/25/HS for head and closing stile – 2.5mm thick x 30mm wide x 5mm brush.  
NS/30/PS for hinge side – 1mm thick x 30mm wide x 3mm brush.

Longer brush sizes can be supplied to order – please state size when ordering.

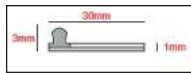
# Intumescent Fire & Smoke Seals



## SURFACE-MOUNTED INTUMESCENT/SMOKE SEALS FOR DOORS



ES/25/HS 30mm seal used for top of door frame and down closing stile or between meeting stiles of double-action doors



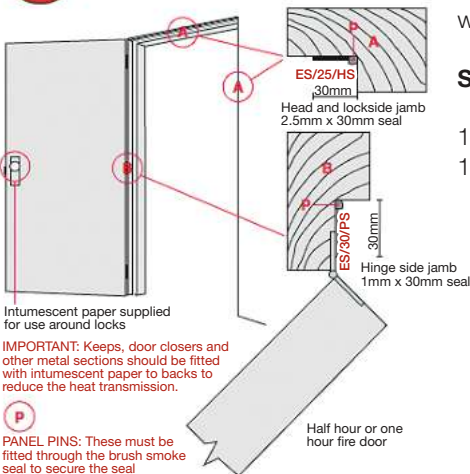
ES/30/PS 30mm seal used for the hinge side of the door frame, applied over the hinge without causing any hinge binding

### PANEL PINS MUST BE FITTED THROUGH THE BRUSH SEAL



Fire door labels are supplied with each set of seals

STANDARD BRUSH SEAL DOOR SETS ES/SDS & ES/DDS



### APPLICATION

Details of the various applications are shown in the illustrations on the right.

### ORDERING REFERENCES

**ES/SDS** Single door set coloured black, brown, red, or white.

**ES/SDS/W** Single door set with real wood veneer finish in ash, oak, sapele, or teak.

**ES/DDS** Double door set coloured black, brown, red, or white.

**ES/DDS/W** Double door set with real wood veneer finish in ash, oak, sapele, or teak.

State the colour or veneer finish required when ordering.

### STANDARD LENGTHS

1000mm Head of door  
1100mm Closing stile and hinge side.

### BRUSH SEALS IN STANDARD SETS

3mm Hinge side, 5mm Head and closing stile. Longer brushes can be fitted (7mm or 10mm) To order single strips, use the following references:

**ES/25/HS** Single strip for head of door & closing stile.

**ES/30/PS** Single strip for hinge side State colour or veneer finish required when ordering.

### PANEL PINS SUPPLIED

All sets are supplied with panel pins to fasten through the brush seals (one at each end and at 300mm intervals).

### FIREPROOF PAPER SUPPLIED

Fireproof paper is supplied for fitting around the lock to cool it in a fire.

### FIRE DOOR LABELS SUPPLIED

Labels printed "Fire Door - Keep Shut" are supplied with each set of seals for single and double doors.

### PAINTING AND DOOR SEALS

Intumescent seals can be painted or varnished over, but the brush seal **MUST NOT** be painted over. However, brush seals can be supplied as replacements and they are very easy to fit.

## SURFACE FIX INTUMESCENT/SMOKE SEAL

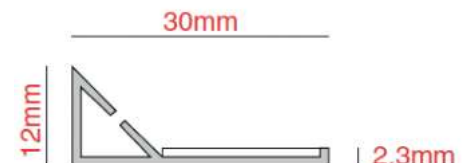
### With twin flexible seals for larger gaps or distorted doors

Also available are the ES/SDS/P (single door) and ES/DDS/P (double door) seal sets as shown below left. Ideal for larger gaps or distorted doors.

Fitted in same way as other seals, but with the same type of seal fits across the head and up the stiles. Supplied in 1050mm and 2200mm lengths. Standard colours are black, brown and white.

Many real wood veneer finishes are available on the intumescent. Brush seal is supplied for the meeting stiles on double doors.

Pins are only needed for the brush seals on the meeting stiles of double doors. ES/SDS/P & ES/DDS/P seal sets are supplied with fireproof paper (for fitting around locks) and labels printed "Fire Door - Keep Shut".



The new ES/SDS/P & ES/DDS/P plastic seals have twin soft rubber smoke seals with intumescent fire seals.