



## Halspan 90 minute Intumescent Seal Kits for Timber Frames

### Fire, Smoke & Acoustic Seal Kits



**Halspan 90** seals are specially designed to perform to the very highest standards. They have been fully tested to BS 476: Part 22: 1987 for performance to 90 minutes fire resistance when combined with Halspan 90 Fire Doors in timber frames. All seals have a self-adhesive backing strip for ease of installation and are supplied pre-packed with sufficient seals to install one Halspan 90 doorset. Available in two lengths, covering either single or double doorsets.



#### For FD90 Fire Rated Door Timber Assemblies

##### Tested in Accordance with:

BS 476: Part 22: 1987

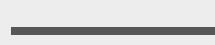
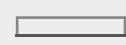
\*See notes section overleaf on smoke control and further considerations for other relevant test standards



#### Product Codes & Specification\*

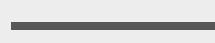
| Product Name  | Halspan 90 minute Intumescent Seal Kit - Standard Size, Timber Frame |                                       |            |            |
|---------------|--|---------------------------------------|------------|------------|
| Door Kits     | Product Code   | Component Quantities (2100mm Lengths) |            |            |
|               |  | 15mm x 6mm                            | 25mm x 6mm | 50mm x 2mm |
| <b>Single</b> | SLS-TKS-90-21BR<br>(Previously coded SLS-KIT-102)                    | 2.5                                   | 2.5        | 0.5        |
| <b>Double</b> | SLS-TKD-90-21BR<br>(Previously coded SLS-KIT-101)                    | 4                                     | 4          | 1          |

\*Refer to manual for application



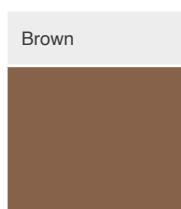
| Product Name  | Halspan 90 minute Intumescent Seal Kit - Extended Size, Timber Frame |                                       |            |            |
|---------------|--|---------------------------------------|------------|------------|
| Door Kits     | Product Code   | Component Quantities (2500mm Lengths) |            |            |
|               |  | 15mm x 6mm                            | 25mm x 6mm | 50mm x 2mm |
| <b>Single</b> | SLS-TKS-90-25BR<br>(Previously coded SLS-KIT-117)                    | 2.5                                   | 2.5        | 0.5        |
| <b>Double</b> | SLS-TKD-90-25BR<br>(Previously coded SLS-KIT-118)                    | 4                                     | 4          | 1          |

\*Refer to manual for application



#### Colours

Halspan 90 Plain and Bladed seals are available in Brown.



\*other colours available by special order

# Halspan 90 minute Intumescent Seal Kits for Timber Frames



## Smoke

### A Note on Smoke Control

(from BS 8214: 2016)

The test standards for determining smoke leakage are BS 476-31.1 and BS EN 1634-3. Smoke leakage is essentially the transfer of airborne particles of the products of combustion, and sealing systems are used to restrict this air flow. Seals are used to fill the gaps between the door leaf and the frame. As such, they can have an adverse effect on the operating forces required to use the door if not carefully fitted. Removal of seals to accommodate door hardware increases the leakage rate. Seals that fit in the centre thickness of the door are generally subjected to friction effects detrimental to the durability of the seal and the easy use of the door. Seals applied to the face of the doorstop are unlikely to have a noticeably adverse effect on the forces required to open the door. Doorstop-mounted seals might prevent the door from latching or closing if incorrectly fitted, or when incorporated within a door rebate that has not been designed to accommodate such seals.

Fire doors that are required by the appropriate building regulations to restrict the flow of ambient temperature smoke, identified by the suffix S, e.g. FD30S, FD 30S (BS 476-31) or the suffix Sa, e.g. E 30Sa (BS EN 1634-3), should be fitted with smoke seals. When installed, the threshold gap should, where practicable, be sealed by a (flexible edge) or automatic drop seal, either with a leakage rate not exceeding 3 m<sup>3</sup>/h per metre at 25 Pa when tested to BS 476-31.1 or BS 1634-3, or just contacting the floor, giving an even contact with the floor but not exhibiting significant increased frictional forces that could interfere with the closing action of the door.

**Halspan strongly recommend the use of our SLS-DRP range of automatic drop seals and SLS-TRI triple fin seals to ensure compliance on smoke rated doorsets.**



## General Notes

### Further Considerations

Note that there is other guidance available, including BS 9999-2017 - Code of practice for fire safety in the design, management and use of buildings, which may impose different or additional requirements, such as consideration of the gap between door leaf and threshold.

Halspan intumescent seals and smoke seals have undertaken extensive testing over many years and have been proven to perform against the toughest test standards in the most onerous of doorset designs. Care must be taken to ensure that these seals are used in the correct manner, in accordance with certification data such as Field of Application Reports and primary test evidence.

Further industry guidance can also be found in the following publications:

- BS 8214:2016: Timber-based fire door assemblies - Code of practice
- BS 9999:2017: Fire safety in the design, management and use of buildings – Code of practice
- ASDMA - Guidance and Recommendations for the Coordination of Bespoke Doorsets
- ASDMA - Best Practice Guide to Timber Fire Doors

## Supporting Certification and Test Data

### Certification - Fire

Warringtonfire Halspan 90 Field of Application Report Chilt/A05151  
IFC Halspan 90 Field of Application Report PAR/10513/01

### Smoke Test Data

WYC406902-01

