

Halspan Triple Fin

High Performance Smoke & Acoustic Seals

Halspan Triple Fin Perimeter Seals provide excellent protection against cold smoke by forming an uninterrupted seal between the door frame and door leaf. It is simple to fit, with strong high tack double sided self adhesive strip. It consists of a semi-rigid base with three flexible blades of optimum angles. These flexible blades act like triple glazing to give maximum acoustic performance along with smoke seal capabilities.

Permitted For Use With 30, 60 90 & 120 Minute Fire Rated Doors in Timber Frames

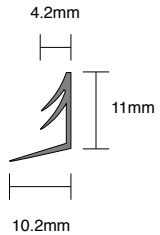
Tested in Accordance with:	BS476: Part 22 and EN 1634: Part 1 *See notes section overleaf on smoke control and further considerations for other relevant test standards

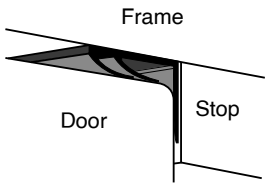
Product Codes & Specification

Master Product Code: SLS-TRI

Halspan Triple Fin Seals are available in the sizes and colours shown below (+/-0.3mm) depending on your performance requirements. The standard length supplied is 2100mm and 3000mm. Special lengths and colours can also be made to order. All seals are supplied complete with a self-adhesive backing strip for ease of installation. Max gap size 3mm-4mm.

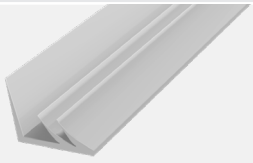
Design Guide





Note: Halspan Triple Fin can also be fitted with the adhesive edge on the door stop

Colour Range

Brown (BR)	Black (BK)	White (WH)
		

Product Codes

Product Name	Halspan Triple Fin High Performance Smoke & Acoustic Seals	
Colour	2100mm	3000mm
Brown	SLS-TRI-21BR	SLS-TRI-30BR
Black	SLS-TRI-21BK	SLS-TRI-30BK
White	SLS-TRI-21WH	SLS-TRI-30WH

Smoke

A Note on Smoke Control

(from BS 8214: 2026)

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 in order to achieve the required smoke leakage performance.

Fire doors that are required to restrict the flow of ambient temperature smoke, should either:

a) have a leakage rate not exceeding 3 m3/h per metre, at 25 Pa, when tested in accordance with BS 476-31.1; or
b) meet the classification requirement of S_{a4} (as classified in accordance with BS EN 13501-2) when tested in accordance with BS EN 1634-3, using an appropriate threshold sealing system.

NOTE 1: While in the past it has been deemed acceptable to allow smoke control doors to be unsealed at the threshold, and smoke leakage performance defined in terms of "head and jambs only", this is no longer the case. Following the test method of BS 476-31.1, the smoke leakage performance is required to be measured over the whole specimen, including the threshold and, if any, the meeting stiles.

Where smoke sealing is required, the gap between the bottom of the door and the threshold or finished floor should be sealed with a suitable bottom of door sealing system, such as a drop seal, providing the same level of protection as around the rest of the perimeter, i.e. with a leakage rate not exceeding 3 m^3/h per metre at 25 Pa when tested in accordance with BS 476-31.1 or BS EN 1634-3.

Please note: The above sections have been abstracted from BS 8214:2026, therefore it is recommended that you review the full standard in regards for installing the final doorset not covered under BS EN 13501-2 classification from your Doorset Fabricator.

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 8214:2026: 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 Optima 30 Field of Application Report Chilt/A01204
- Warringtonfire Halspan Optima 60 Field of Application Report Chilt/A01205
- Warringtonfire Halspan Prima 30 Field of Application Report FEA/F97174
- Warringtonfire Halspan Prima 60 Field of Application Report FEA/F96103
- Warringtonfire Halspan XT/IT 30 Field of Application Report Chilt/A13242
- Warringtonfire Halspan 90 Field of Application Report Chilt/A05151
- Warringtonfire Halspan 120 Field of Application Report BMT/CNA/F15082
- Warringtonfire Halspan Prima 30 Fire & Smoke Field of Application Report WF523362
- Warringtonfire Halspan Prima 60 Fire & Smoke Field of Application Report WF532767
- IFC Halspan Optima 30 Field of Application Report PAR/10341/01
- IFC Halspan Optima 60 Field of Application Report PAR/10341/02
- IFC Halspan Prima 30 Field of Application Report IFCA/06166
- IFC Halspan Prima 60 Field of Application Report IFCA/06167
- IFC Halspan 90 Field of Application Report - PAR/10513/01
- IFC Halspan 120 Field of Application Report - PAR/10513/02

Smoke Test Data

- WYC552501
- WYC552503
- WYC552504
- WYC552505

The information in this datasheet is correct at time of going to press. However our designs, specifications and certifications may change in the interest of product development following publication. If you would like to make a query about any of the details in this document, please contact Halspan via our website, or call our office in the UK on +44 (0)3300 563836.