



Halspan Automatic Threshold Seals

Fire, Smoke & Acoustic Drop Seals

Halspan Automatic Threshold Seals are an ideal solution for sealing the gap between the bottom of the door and the threshold. The benefits provided by the SLS-DRP series seals are acoustic performance, fire and smoke sealing, gas/air prevention, light nuisance prevention and providing a dirt and insect barrier. The SLS-DRP series is fully mortised into the bottom of the door and the mechanism activates when the door is closed, lowering and self-levelling the seal to the floor. When the door is opened, the seal lifts clear of the floor and retreats into its housing. No threshold plate is required for use with this seal.



Fire

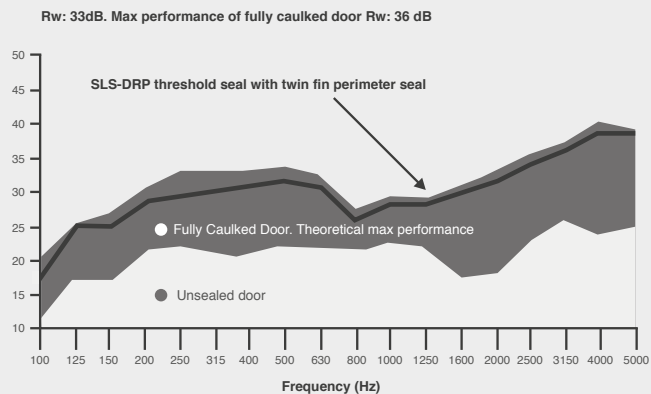
Fire Testing

Achieved 30, 60 & 90 minutes fire resistance when tested to European Standard BSEN 1634-1:2000 (30 & 60 only) and British Standard BS476:1987. Tested using 44mm, 54mm & 64mm Halspan.



Acoustics

Acoustic Performance



Operational & Durability

Testing

Has been successfully tested for 500,000 cycles in accordance with BS EN1191:2000.

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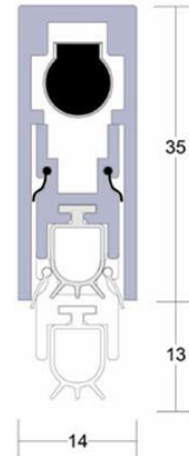
Fire, Smoke & Acoustic Drop Seals



Product Codes & Specification*

Product Code	SLS-DRP
Available Lengths	The seal is available in a range of door widths: 335 mm 835 mm 435 mm 935 mm 535 mm 1035 mm 635 mm 1135 mm 735 mm 1235 mm Other bespoke lengths are available on request.
Materials	Anodized aluminium housing with a silicone seal. All fixing materials are supplied.
Application	Single swing doors; use with any compliant perimeter seal.

Design Guide



General Notes

A Note on Smoke Control

(Extract Exova Global Assessment- ref. FEA/F96103)

If the doorset design is required to provide a smoke control, it must have a leakage rate not exceeding 3m³/m/hour (head and jambs only) when tested at 25Pa under BS 476 Fire tests on building materials and structures, Section 31.1 - Methods for measuring smoke penetration through doorsets and shutter assemblies, Method of measurement under ambient temperature conditions, or meet the additional classification requirement of Sa when tested to BS EN 1634-3: 2004 - Fire resistance tests for door and shutter assemblies, Part 3 – Smoke control doors.

Smoke seals or combined intumescent/smoke seals that are fitted to the door to achieve the performance requirements specified above, must have been tested in accordance with the associated test method.

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.

Responsibility for the appropriate smoke sealing specification and performance of the doors should be agreed between the relevant parties (i.e. specifier, manufacturer, contractor) prior to commencing manufacture and/or installation.

Additional guidance on smoke sealing is given in BS 8214: 2008, "Code of practice for fire door assemblies" and BS 9999: 2017 "Code of practice for fire safety in the design, management and use of buildings" both of which advise that for effective ambient smoke sealing the threshold gap should either be controlled to a maximum of 3mm or a suitably fire performance tested threshold drop down seal fitted - Halspan drop seal: SLS-DRP

Seals should be uninterrupted around ironmongery to maintain optimum smoke integrity.

Supporting Test Data

Smoke test data: WYC406080-01

