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## CERTIFICATE OF APPROVAL

### No CF 5179

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This is to certify that, in accordance with  
TS00 General Requirements for Certification of Fire Protection Products  
The undermentioned products of

## ASSA ABLOY LIMITED T/A LORIENT

Portobello Works, School Street, Willenhall, WV13 3PW, United  
Kingdom

Tel: 01626 834252 Fax: 01626 833166

Have been assessed against the requirements of the Technical Schedule(s)  
denoted below and are approved for use subject to the conditions  
appended hereto:

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#### CERTIFIED PRODUCT

LORIENT LAS1010, LAS1212,  
LAS1212K, LAS1011,  
LAS1015, LAS7001si,  
LAS7002si, LAS7003si,  
AAS7501, AAS7502, AAS7503,  
LAS8005si, LAS8001si,  
LAS8002si, LAS8003si,  
AAS8501 and AAS8503 Smoke  
and Acoustic Seals

#### TECHNICAL SCHEDULE

TS21 The Contribution of Edge  
Seals to the Control of Smoke  
Leakage via Door Assemblies

Signed and sealed for and on behalf of Warringtonfire Testing and Certification Limited

Paul Duggan  
Certification Manager



Issued: 28<sup>th</sup> October 2013  
Revised: 1<sup>st</sup> March 2023  
Valid to: 14<sup>th</sup> November 2023





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### ASSA ABLOY LIMITED T/A LORIENT

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**LORIENT LAS1010, LAS1212, LAS1212K, LAS1011, LAS1015, LAS7001si, LAS7002si, LAS7003si, AAS7501, AAS7502, AAS7503, LAS8005si, LAS8001si, LAS8002si, LAS8003si, AAS8501 and AAS8503 Smoke and Acoustic Seals**

1. Lorient LAS1010, LAS1212, LAS1212K, LAS1011, LAS1015, LAS7001si, LAS7002si, LAS7003si, AAS7501, AAS7502 and AAS7503 smoke and acoustic seals are of the compression/deflection (C/D) type. They are used for sealing door assemblies against leakage of ambient temperature smoke, as defined in BS476: Part 31.1: 1983. They do not contain intumescent material.
2. This certification is provided to the client for its own purposes and we cannot opine on whether it will be accepted by Building Control authorities or any other third parties for any purpose.
3. Lorient LAS8005si, LAS8001si, LAS8002si, LAS8003si, AAS8501 and AAS8503 seals are aluminium cased automatic threshold seals. They are used for sealing the threshold of door assemblies against leakage of ambient temperature smoke, as defined in BS 476: Part 31.1: 1983.
4. Within BS 9999: 2008, a fire door required to resist the passage of smoke at ambient temperature conditions should, when tested in accordance with BS 476: Section 31.1 with the threshold taped and subjected to a pressure of 25 Pa, have a leakage not exceeding 3 m<sup>3</sup>/m/h. The threshold gap should be sealed either by a seal either with a leakage rate not exceeding 3m<sup>3</sup>/m/h at 25 Pa or just contacting the floor. Where this is impracticable the threshold gap should not exceed 3 mm at any point.
5. The door seals are approved on the basis of:
  - i) Initial type testing
  - ii) A design appraisal against TS21
  - iii) Certification of quality management system to ISO 9001: 2008.
  - iv) Inspection and surveillance of factory production control
  - v) Audit testing
6. This approval certifies that the above seals are suitable for use with single-acting door assemblies required to restrict smoke leakage at ambient temperatures as defined in Appendix B of Approved Document B, 'Fire Safety' to the Building Regulations 1991. It is applicable to latched and unlatched, single leaf and double leaf assemblies consisting of timber faced and edged leaves with timber, cellulosic or mineral cores in timber frames with or without intumescent edge seals (Code ITT and TT respectively). It is only applicable to assemblies that have been approved, or have been shown by test, to achieve the required period of fire resistance.

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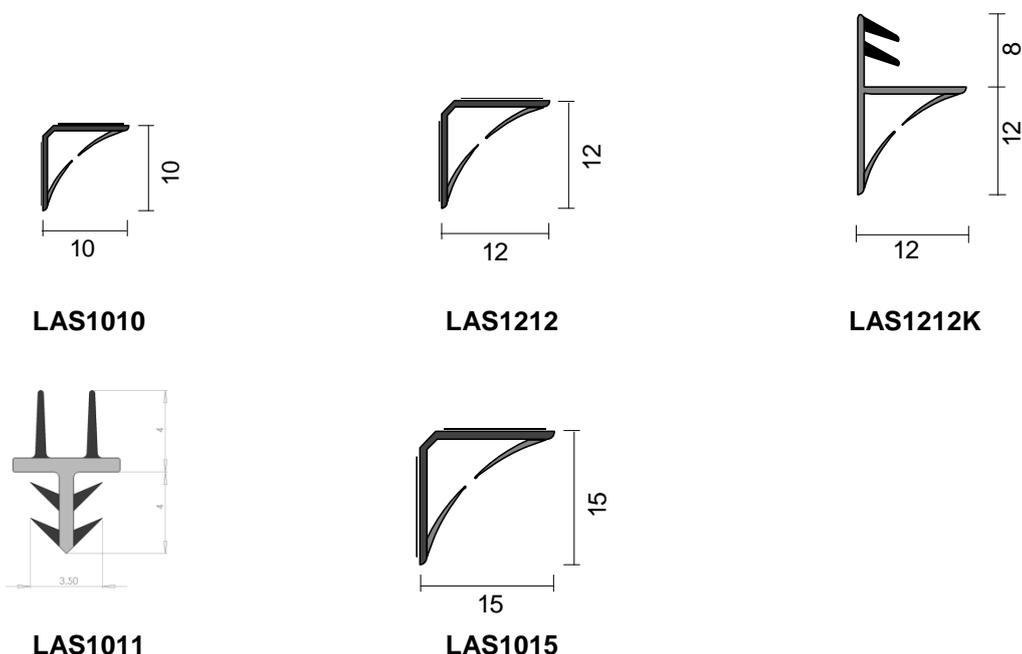
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- The seals shall be uninterrupted and fixed around the head and vertical edges of the frame. Double leaf door shall additionally incorporate an approved smoke seal at the meeting edges and threshold. The seals shall be installed in accordance with the manufacturer's instructions.
- The approval relates to on-going production. Product and/or its immediate packaging is identified with the manufacturers' name, the product name or number, the CERTIFIRE name or name and mark, together with the CERTIFIRE certificate number and application where appropriate.

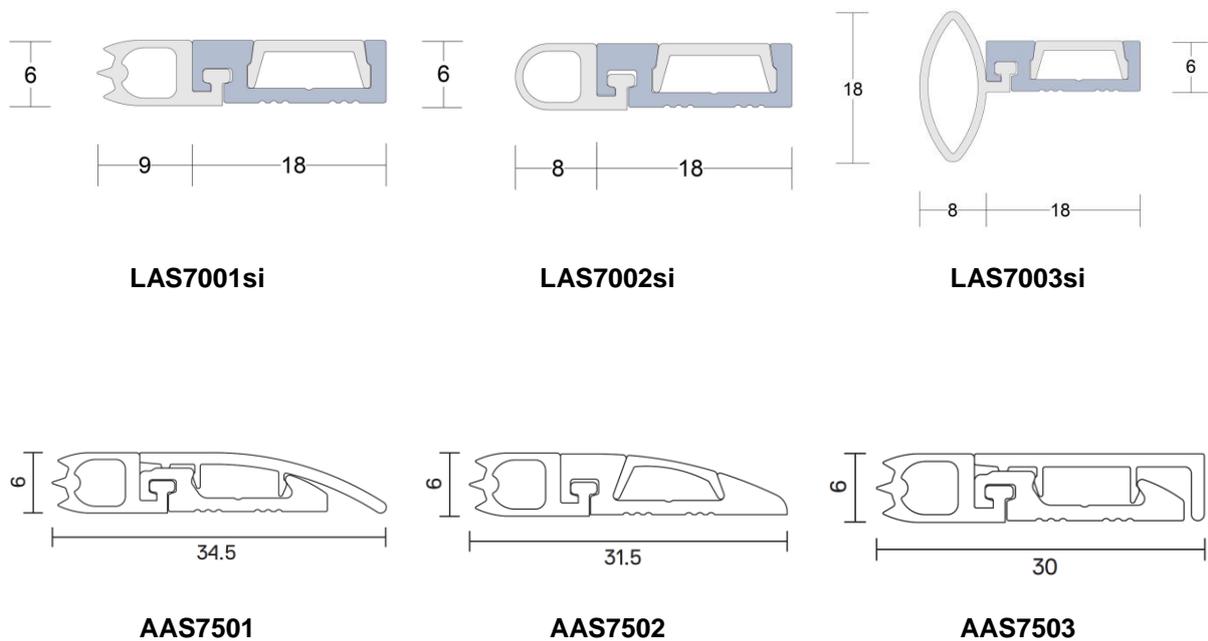
**Figure 1. Drawings of seals**



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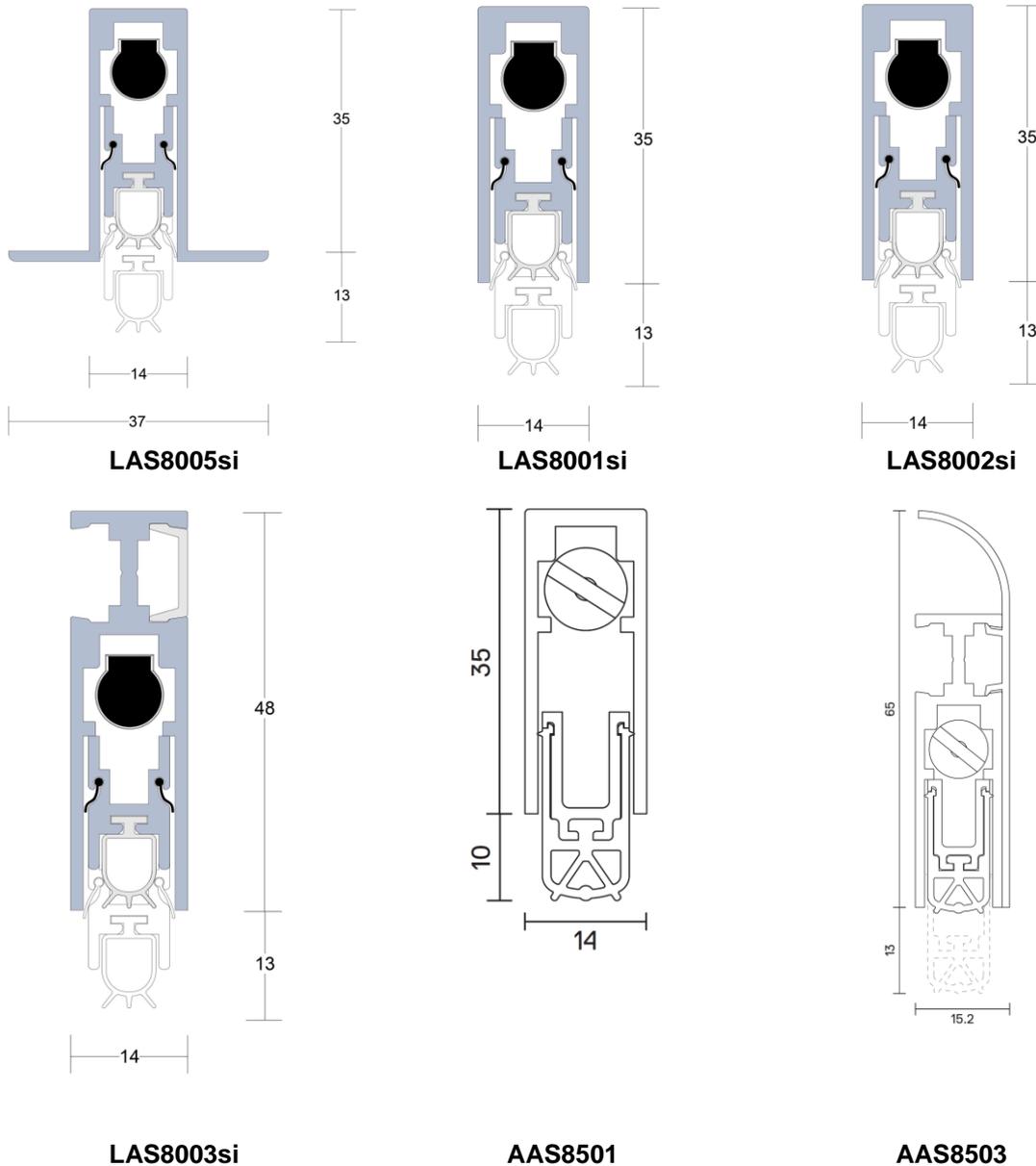
**Figure 1 (Continued). Drawings of seals**



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**Figure 1 (Continued). Drawings of seals**



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