



CERTIFICATE OF APPROVAL

No CF 330

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

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

CERTIFIED PRODUCT

Lorient Palusol 100P
intumescent seals (with
optional
SS/AS/TS/FS/DS/Finesse
smoke seals)

TECHNICAL SCHEDULE

TS35 – The Contribution Of
Intumescent Seals To The Fire
Resistance Of Pedestrian Type
Door Assemblies (Issue 2)
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: 26th May 2004
Revised: 25th June 2024
Valid to: 25th May 2029



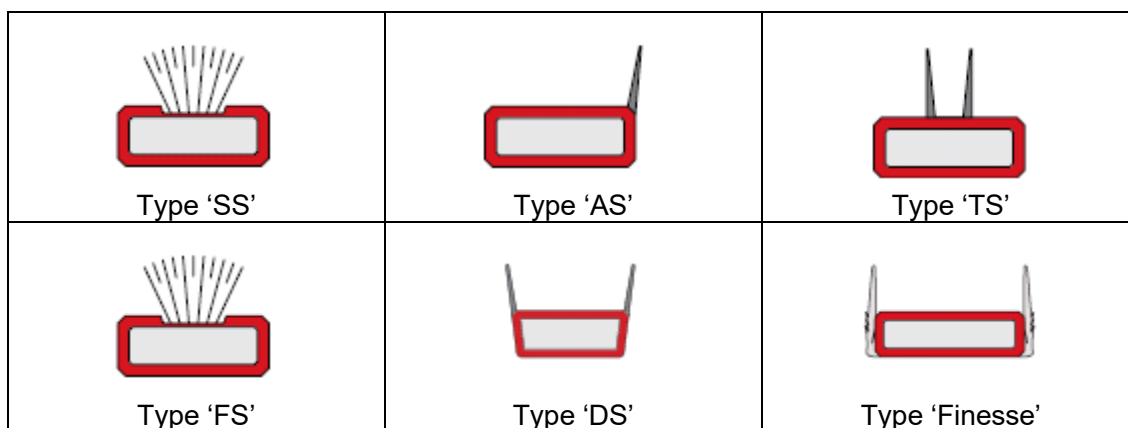
CERTIFICATE No CF 330 ASSA ABLOY LIMITED T/A LORIENT

LORIENT PALUSOL 100P INTUMESCENT SEALS WITH OPTIONAL SS/AS/TS/FS/DS/Finesse SMOKE SEALS

1. Lorient 'Palusol 100P' intumescent seals comprise a range of PVC-encased, sodium silicate based, intumescent seals with or without integral smoke seals. The combined seals include integral smoke seal variants of the wiping type, denoted with suffix letters SS (brush pile), FS (brush pile with blade), TS (twin blade), AS (offset blade), DS (offset twin blade) and Finesse (offset folding twin blade). The seals are designated by the letters LP followed by four digits. The nominal overall dimensions (in mm) are given by the first two and last two digits respectively, plus 'Palusol'. The seals contain 2mm less in width (3.5mm less for Finesse variants) than the nominal overall seal width. (Finesse seal width is measured over outer fin dimension).

Each product range is available in a range of sizes (minimum 10 mm by 3 mm and also larger sizes to suit various door applications).

2. This certification is provided to the client for their 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. The door seals are approved on the basis of:

- i) A design appraisal against TS35 and TS21
- ii) Initial type testing
- iii) Manufacturing frequency checks
- iv) Ageing and durability tests
- v) Evidence of technical support
- vi) Clear and unambiguous labeling of seals
- vii) Ongoing audit tests in accordance with TS35
- viii) Certification of quality management system to ISO 9001: 2008.
- ix) Inspection and surveillance of factory production control

Signed
E014107-1



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LORIENT PALUSOL 100P INTUMESCENT SEALS WITH OPTIONAL
SS/AS/TS/FS/DS/Finesse SMOKE SEALS

4. These seals, of minimum dimensions 10 mm wide by 3 mm thick, are suitable to be used with:

CERTIFIRE approved FD30 single-acting, single leaf, latched or unlatched doorsets of maximum leaf dimensions 2040 mm high by 926 mm wide and of minimum thickness 42 mm. The doorset assemblies shall consist of timber faced and edged leaves with timber, cellulosic or mineral cores in timber frames (Code ITT). More information can be referred to in TS35.

5. The suitability of the seals in door assemblies not certificated by CERTIFIRE should be established by reference to the certification, test reports or assessments relating to the particular door assembly.
6. Lorient 'Palusol 100P' sodium silicate intumescent seals may be used with doorsets outside of the scope given above (paragraph 3) providing the door manufacturer's certification shows acceptability.
7. The approved Lorient 'Palusol 100P' seals shall have nominal widths and cross-sectional areas of intumescent at least equal to those in the tested/approved door assembly and shall be similarly positioned. On the basis that the 15mm x 4mm Finesse variant includes a reduced width of intumescent (compared with the remainder of the LP1504 range), this intumescent seal may only be used to replace originally tested seals of nominal dimensions 10 mm wide by 4 mm thick.
8. The approval additionally certifies that the described integral smoke seal variants are suitable for use with door assemblies required to restrict smoke leakage at ambient temperatures as defined in BS 476: Part 31.1: 1983. The described integral smoke seals are applicable for use within single-acting, single-leaf FD20S and FD30S assemblies as detailed in the paragraph within section 3 above. The seals shall be uninterrupted around the head and vertical edges and may be installed either in the frame or the leaf. The LP1504DS and Finesse seals may be partially interrupted but one fin shall remain continuous. In order to achieve this, the seal may be positioned offset at a maximum of 23 mm from the opening side of the door or frame to provide a continuous smoke seal.
9. The seals shall be installed in accordance with the manufacturers instructions.
10. 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 (i.e No. CF 330) and application where appropriate.

Signed
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