



CERTIFICATE OF APPROVAL
No CF 543

This is to certify that, in accordance with
CERTIFIRE's Rules for Certification
The undermentioned products of

ASTROFLAME (FIRESEALS) LIMITED

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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

**Astroflame 'Astrostrip X'
Intumescent Fire and
Smoke Seals**

**Astroflame 'Astrostrip
Quad Seal X' Intumescent
Fire, Smoke, Acoustic and
Thermal 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 CERTIFIRE

Sir Ken Knight
Chairman - Management Council

Issued: 15th November 2007
Valid to: 14th November 2012

Page 1 of 3



Seal is in place Only valid when authentic CERTIFIRE



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ASTROFLAME 'ASTROSTRIP X', 'ASTROSTRIP QUAD SEAL X' INTUMESCENT FIRE AND SMOKE SEALS

1. Astroflame 'Astrostrip X' and 'Astrostrip Quad Seal X' seals comprise a range of pvc-encased, graphite based, intumescent seals of the high pressure type with or without integral smoke and or acoustic seals. The seals include integral smoke and or acoustic seal variants of the wiping type, and comprise either a gasket of Aquamac qlon thermal, smoke and acoustic seal or a brush smoke seal pile. The seals contain nominally 2 mm thick intumescent strip, 2 mm less in width than the nominal overall seal width.

This certification is designed to demonstrate compliance of the product or system specifically with Approved Document B (England and Wales), Section D of the Technical Standards (Scotland), Technical Booklet E (N. Ireland). If compliance is required to other regulatory or guidance documents there may be additional considerations or conflict to be taken into account.'

This approval applies to the described seals of minimum dimensions 10 mm wide by 4 mm thick (but also includes seals of increased dimensions) in all variations of finish, both with and without integral smoke and or acoustic seals. The following table gives examples, however they are not absolute:

Product Reference	Type	Profile Dimensions
AF1004 FOX	Fire Only	10 mm x 4 mm
AF1204 FOX	Fire Only	12 mm x 4 mm
AF1504 FOX	Fire Only	15 mm x 4 mm
AF1004 FSX	Fire / Smoke	10 mm x 4 mm
AF1204 FSX	Fire / Smoke	12 mm x 4 mm
AF1504 FSX	Fire / Smoke	15 mm x 4 mm
AF1004QX	Fire/Smoke/Acoustic/Thermal	10 mm x 4 mm
AF1204QX	Fire/Smoke/Acoustic/Thermal	12 mm x 4 mm
AF1504QX	Fire/Smoke/Acoustic/Thermal	15 mm x 4 mm

2. 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) Inspection and surveillance of factory production control
- viii) Certification of quality management system to ISO 9001: 2000
- viii) Ongoing audit tests in accordance with TS35



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ASTROFLAME 'ASTROSTRIP X', 'ASTROSTRIP QUAD SEAL X' INTUMESCENT FIRE AND SMOKE SEALS

3. These seals, of minimum dimensions 10 mm wide by 4 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.

4. 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.
5. Astroflame 'Astrostrip X' and 'Astrostrip Quad Seal X' seals may be used with doorsets outside of the scope given above (paragraph 3) providing the door manufacturer's certification shows acceptability.
6. The approved 'Astrostrip X' and 'Astrostrip Quad Seal X' seals shall have widths and cross-sectional areas of intumescent at least equal to those in the tested/approved door assembly and shall be similarly positioned.
7. 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 BS476: Part 31.1: 1983 and Appendix B of Approved Document B 'Fire Safety' to the Building Regulations 1991. It is applicable for use within single acting, single-leaf FD20S and FD30S assemblies as detailed in paragraph 3 above. 'Astrostrip Quad Seal X' seals may be interrupted around the hinges and at the latch position and may be installed either in the frame or the leaf. 'Astrostrip X' seals must not be interrupted and shall be fitted such that they bypass any door hardware e.g. around the hinges and at the latch position. The seals shall be installed in the door frame.
8. The seals shall be installed in accordance with the manufacturer's instructions.
9. The approval relates to on going production. Product and/or its immediate packaging is identified with the manufacturer's name, the product name or number, the CERTIFIRE name or name and mark, together with the CERTIFIRE certificate number and application where appropriate.