



CERTIFICATE OF APPROVAL

No CF 280

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

MANN MCGOWAN FABRICATIONS LIMITED

**Intumescent House, 4 Brook Trading Estate, Deadbrook Lane,
 Aldershot, Hampshire, GU12 4XB
 Tel: 01252 333601 Fax: 01252 322724**

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

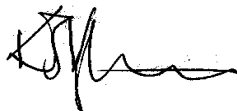
CERTIFIED PRODUCT

**Mann McGowan Enviroseal
 SS5, Flexifin 5 and Twinfin
 5 Smoke 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 CERTIFIRE



Sir Ken Knight
 Chairman - Management Council

Issued: 11th June 2002
 Reissued: 16th April 2015
 Valid to: 15th April 2020

Page 1 of 3



CERTIFICATE No CF 280

MANN MCGOWAN FABRICATIONS LIMITED

Mann McGowan Enviroseal SS5, Flexifin 5 and Twinfin 5 Smoke Seals

1. This approval relates to the use of the above door seals in contributing to the performance of doorsets against the leakage of ambient temperature smoke, as defined in BS 476: Part 31.1: 1983 subject to the undermentioned conditions.
2. 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.
3. Within BS 5588: Part 1: 1990, 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 m³/m/h. The threshold gap should be sealed either by a seal either with a leakage rate not exceeding 3m³/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.
3. The door seals are approved on the basis of:
 - i) A design appraisal against TS21
 - ii) Initial type testing
 - iii) Manufacturing frequency checks
 - iv) Clear and unambiguous labeling of seals
 - v) Certification of Quality Management System to ISO9001 : 2008
 - vi) Inspection and surveillance of factory production control.
4. The seals comprise a range of brush pile and elastomeric smoke seals.
5. This approval relates to doorsets with leaf to frame gaps of between 3.5mm and 4.5mm.
6. The doorsets into which the seals are to be fitted may be single or double acting and single or double leaf as follows:
 - Enviroseal SS5 continuous around double acting doors
 - Enviroseal SS5 continuous around single acting doors
 - Flexifin 5 continuous around single acting doors
 - Flexifin 5 continuous around double acting doors.
 - Twinfin 5 continuous around single acting doors
 - Twinfin 5 continuous around double acting doors
 - Twinfin 5 interrupted at hinges and latch around single acting doors
7. The SS5 and Flexifin seals shall be fixed continuously around the head and vertical edges of the frame along the centre line of the door frame rebate bypassing any hinge and latch items.



CERTIFICATE No CF 280
MANN MCGOWAN FABRICATIONS LIMITED

Mann McGowan Enviroseal SS5, Flexifin 5 and Twinfin 5 Smoke Seals

8. The Twinfin seals shall be fixed around the head and vertical edges of the frame along the centre line of the door frame rebate and the Twinfin 5 seals may only be interrupted at the hinge and latch positions by a total length of 321mm.
9. The seals shall be installed in accordance with the manufacturer's instructions. The doorset shall be installed in accordance with BS 8214: 2008.
10. 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.

Further Information

Further information regarding the details contained in this data sheet may be obtained from Mann McGowan Fabrications Limited (Tel: 01252 333601).

Further information regarding CERTIFIRE certification and other approved products can be obtained from CERTIFIRE (Tel: 01925 646777).

