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CERTIFICATE OF APPROVAL No CF 629

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

NORSEAL LIMITED

Norseal House, Unit 5 Regents Drive, Prudhoe, Northumberland NE42 6PX Tel: 01661 831 311 Fax: 01661 830 099

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

TECHNICAL SCHEDULE

Norsound NOR710, NOR720 & NOR810 Smoke and Acoustic Seals

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

Signed and sealed for and on behalf of Exova (UK) Limited trading as Warrington Certification

Paul Duggan Certification Manager



Issued: 26th February 2009 Revised: 14th January 2019 Valid to: 13th January 2024



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Registered Office: 10 Lower Grosvenor Place, London, United Kingdom, SW1W 0EN. Company Registration No: 11371436

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CERTIFICATE No CF 629 NORSEAL LIMITED

NORSOUND NOR710, NOR720 & NOR810 SMOKE AND ACOUSTIC SEAL

- 1. 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.
- 2. The NOR710 and NOR720 smoke and acoustic seals are both of the compression/deflection (C/D) type. They are used for sealing door assemblies against leakage of ambient temperature smoke, as defined in BS 476: Part 31.1: 1983. They do not contain intumescent material.
- 3. The NOR810 smoke and acoustic seal is an aluminium cased automatic threshold seal, 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 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.
- 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. The NOR710 and NOR720 seals shall be uninterrupted and fixed around the head and vertical edges of the frame.
- 7. The NOR810 seals shall be uninterrupted and fixed to the bottom edge of door leaves. Double leaf door assemblies shall additionally incorporate a threshold seal to both door leaves. The seals shall be installed in accordance with the manufacturer's instructions.

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CERTIFICATE No CF 629 NORSEAL LIMITED

NORSOUND NOR710, NOR720 & NOR810 SMOKE AND ACOUSTIC SEAL

8. The approval relates to ongoing production. The product purchase order is to be marked with order number and date of production and the CERTIFIRE certificate number will be clearly placed on product literature and website material.

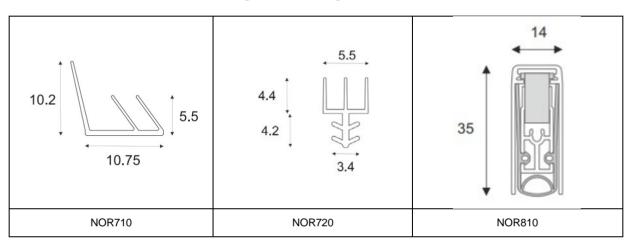


Figure 1. Drawings of seals

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