
CERTIFICATE OF APPROVAL

No CF 515

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

FSI LIMITED

Westminster Industrial Estate, Tamworth Road,
Measham DE12 7DS

Tel: 01530 515130 Fax: 01530 273564

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
NS Putty & NS Putty Pads

TECHNICAL SCHEDULE
TS03 Penetration Sealing
Systems

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



Paul Duggan
Certification Manager



Issued: 20th November 2006
Reissued: 8th May 2018
Valid to: 7th May 2023

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CERTIFICATE No CF 515

FSI LIMITED

NS Putty & NS Putty Pads

1. This approval relates to the use of NS Putty & NS Putty Pads for the fire protection where services are penetrating walls and floors. The detailed scope is given in the Approval Matrix included in this Certificate. This shows the thickness and acceptable services for NS Putty & NS Putty Pads required to provide fire resistance periods in accordance with BS 476: Part 20: 1987 of up to 240 minutes for differing services and wall/floor constructions. The scope of certification complies with the guidelines stated in the ASFP Red Book: 3rd Edition for 3rd party certification schemes.
2. This certification is designed to demonstrate compliance of the product or system specifically with Approved Document B (England and Wales), Section 2 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. The product is approved on the basis of:
 - i) Initial type testing
 - ii) Audit testing at the frequency specified in TS03
 - ii) A design appraisal against TS03
 - iv) Inspection and surveillance of factory production control
4. The concrete floors and/or masonry or concrete walls shall be at least 100mm thick and have at least the same fire rating as that required for the penetration seal.
5. Not more than 50% of the area of the opening shall be filled with the penetrating services.
6. The services which may be fitted through the seals are electrical cables of various sizes from communication cables to power cables. The cables may be mounted in steel trunking or conduits. If fitted in trunking, the inside of the trunking around the cables must be filled with putty where it passes through the seal.
7. Other services which may be fitted through the seals are steel, copper or plastic pipes. For plastic pipes the putty must fill the full depth of the opening in the wall or floor.
8. Also plastic pipes must be fitted with intumescent closing devices, or similar, which have been shown by certification in the required orientation to be suitable for use with this type of penetration sealing system and suitable for the fire rating specified.
9. The approval relates to ongoing 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.

Further information regarding the details contained in this data sheet may be obtained from FSI Limited. (Tel: 01530 515130).

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

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FSI LIMITED

NS Putty & NS Putty Pads- Approval Matrix

Product Name:		NS Putty & NS Putty Pads			
Coating / WFT:		Not applicable			
Density:		1.5 g/cm ³			
Penetrating Services			Fire Rating (min)		
		Maximum Aperture Size (mm)	Minimum Seal Depth (mm)	Integrity	Insulation
Walls	Standard Cable (11mm) or small bunch of cables	25 circular	30	240	240
		30 circular	20	120	120
		50 circular	60	240	240
		60 circular	40	120	120
		100 circular	60	120	120
	Square trunking	100 square	150	240	240
		125 square	60	120	0
		125 square	80	120	120
Floors	Standard Cable (11mm) or small bunch of cables	25 circular	30	240	240
		30 circular	20	120	120
		50 circular	60	240	240
		60 circular	40	120	120
		100 circular	60	120	120
	Square trunking	100 square	150	240	240
		125 square	60	120	0
		125 square	80	120	120
Wall thickness:		The floors and walls shall be a minimum of 150mm thick for 240 minutes and 100mm thick for 120 minutes. The minimum density for the concrete of the floor or wall is 670kg/m ³ and for walls made of concrete blocks is 600kg/m ³ .			
Application Technique:		Clean all loose materials and foreign matter from the opening. Ensure opening is free from dust and oil. Ensure that services are in place. Pack the NS Putty around the service into the opening to the required depth. The surface of the NS Putty may be installed flush with the non-fire exposed face or the fire exposed face of the wall/floor providing the required minimum depth of seal is applied.			
Service Coat-Back :		Not required	U Value:		Not known
Service Support Requirements:		The services must be supported adjacent to the seal on both sides so that the weight of the services is not taken by the seal.			
Maximum Opening Height:		125mm x 125mm Maximum 50% of the area of the opening shall be filled with the penetrating services.			
Resistance to Smoke:		Not evaluated by this approval	Weather Capability:		Not evaluated by this approval
Acoustic Rating:		Not evaluated by this approval	Movement Capability:		Not evaluated by this approval