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designated according to Article 29 of the Regulation (EU) No 305/2011 and member of EOTA (European Organisation for Technical Assessment, www.eota.eu)

European Technical Assessment

ETA 15/0152
of 11/05/2015

Technical Assessment Body issuing the ETA and designated according to Article 29 of the Regulation (EU) No 305/2011: UL International (UK) Ltd

Trade name of the construction product

Firebreak Bag

Product family to which the construction product belongs

Fire Stopping and Sealing Product:
 • Penetration Seals

Manufacturer

Neutron Fire Technologies Limited
 Shire Hall
 Quay Street
 Lostwithiel
 Cornwall
 PL22 0BS

Manufacturing plant(s)

A/005

This European Technical Assessment contains

11 pages including 1 Annex which forms an integral part of this assessment.

This European Technical Assessment is issued in accordance with regulation (EU) No 305/2011, on the basis of

ETAG 026-2, edition 2011, used as European Assessment Document (EAD).

Translations of this European Technical Assessment in other languages shall fully correspond to the original issued document and should be identified as such.

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I. SPECIFIC PARTS OF THE EUROPEAN TECHNICAL ASSESSMENT

1 Technical description of the product

- 1) The Firebreak Bag is an intumescent filled bag device used in multiple to form penetration seals where combustible pipes, cables and metal pipes with insulation penetrate walls.
- 2) The Firebreak Bags are supplied in various sizes, all 300 mm long and are stacked and tightly packed within the aperture in the wall, positioned centrally, with equal overhang to both sides.
- 3) The applicant has submitted a written declaration that the product and/or constituents of the product contains no substances which have been classified as dangerous according to Directive 67/548/EEC and Regulation (EC) No. 1272/2008 and listed in the 'indicative list on dangerous substances' of the EGDS – taking into account the installation conditions of the construction product and the release scenarios resulting from there.

In addition to the specific clauses relating to dangerous substances contained in this European Technical Assessment, there may be other requirements applicable to the products falling within its scope (e.g. transposed European legislation and national laws, regulations and administrative provisions). In order to meet the provisions of the Construction Products Regulation, these requirements need also to be complied with, when and where they apply.

- 4) The use category of Firebreak Bag in relation to BWR 3 (Hygiene, health and environment) is IA1, S/W3

2 Specification of the intended uses of the product in accordance with the applicable European Assessment Document (Hereinafter EAD): ETAG 026-2

Detailed information and data is given in Annex A.

The intended use of system Firebreak Bag is to reinstate the fire resistance performance of flexible wall and rigid wall constructions, where they are penetrated by services.

- 1) The specific elements of construction that the system Firebreak Bag may be used to provide a penetration seal in, are as follows:

Flexible walls: The wall must have a minimum thickness of 100 mm and comprise steel studs lined on both faces with minimum 2 layers of 12.5 mm thick boards.
Rigid walls: The wall must have a minimum thickness of 100 mm and comprise concrete, aerated concrete or masonry, with a minimum density of 650 kg/m³.

The supporting construction must be classified in accordance with EN 13501-2 for the required fire resistance period.
- 2) The system Firebreak Bag may be used to provide a penetration seal with specific supporting constructions and substrates (for details see Annex A).

- 3) The provisions made in this European Technical Assessment are based on an assumed working life of the Firebreak Bag of 10 years, provided that the conditions laid down in the manufacturers datasheet and instructions for the packaging/transport/storage/installation/ use/repair are met. The indications given on the working life cannot be interpreted as a guarantee given by the producer, but are to be regarded only as a means for choosing the right products in relation to the expected economically reasonable working life of the works.
- 4) Type Y₂: intended for use at temperatures below 0°C, but with no exposure to rain nor UV. Includes lower use categories.

3 Performance of the product and references to the methods used for its assessment

Product-type: Bag/Pillow		Intended use: Penetration Seal
Basic requirement for construction work	Basic Requirement	Performance
BWR 1 Mechanical resistance and stability		
-	None	Not relevant
BWR 2 Safety in case of fire		
EN 13501-1	Reaction to fire	Class F
EN 13501-2	Resistance to fire	Annex A
BWR 3 Hygiene, health and environment		
EN 1026:2000	Air permeability (material property)	No performance determined
ETAG 026-2, Annex C	Water permeability (material property)	No performance determined
Declaration of manufacturer	Release of dangerous substances	Use categories: IA1, S/W3 Declaration of manufacturer
BWR 4 Safety in use		
EOTA TR 001:2003	Mechanical resistance and stability	No performance determined
EOTA TR 001:2003	Resistance to impact/movement	No performance determined
EOTA TR 001:2003	Adhesion	No performance determined
BWR 5 Protection against noise		
EN 10140-2/ EN ISO 717-1	Airborne sound insulation	No performance determined
BWR 6 Energy economy and heat retention		
EN 12664, EN 12667 or EN 12939	Thermal properties	No performance determined
EN ISO 12572 EN 12086	Water vapour permeability	No performance determined
General aspects relating to fitness for use		
EOTA TR 024:2009, clause 3.1.11 & 3.1.12	Durability and serviceability	Y ₂
BWR 7 Sustainable use of natural resources		
-	-	No performance determined

4 ASSESSMENT AND VERIFICATION OF CONSTANCY OF PERFORMANCE (HEREINAFTER AVCP) SYSTEM APPLIED, WITH REFERENCE TO ITS LEGAL BASE

According to the decision 1999/454/EC – Commission Decision of date 22nd June 1999 on the procedure for attesting the conformity of construction products pursuant to Article 20(2) of Council Directive 89/106/EEC as regards fire stopping, fire sealing and fire protective products, published in the Official Journal of the European Union (OJEU) L178/52 of 14/07/1999, see <http://eur-lex.europa.eu/JOIndex.do> of the European Commission¹, as amended, the system(s) of assessment and verification of constancy of performance (see Annex V to Regulation (EU) No 305/2011) given in the following table(s) applies (apply).

Product(s)	Intended use(s)	Level(s) or class(es)	System(s)
Fire stopping and Fire Sealing Products	For fire compartmentation and/or fire protection or fire performance	Any	1

5 Technical details necessary for the implementation of the AVCP system, as provided for in the applicable EAD

Tasks of the manufacturer:

Factory production control

The manufacturer shall exercise permanent internal control of production. All the elements, requirements and provisions adopted by the manufacturer shall be documented in a systematic manner in the form of written policies and procedures, including records of results performed. This production control system shall ensure that the product is in conformity with this European Technical Assessment.

The manufacturer may only use initial / raw / constituent materials stated in the technical documentation of this European Technical Assessment.

The factory production control shall be in accordance with the Control Plan of 10th April 2015 relating to the European Technical Assessment ETA 15/0152 issued on 11/05/2015 which is part of the technical documentation of this European Technical Assessment. The "Control Plan" is laid down in the context of the factory production control system operated by the manufacturer and deposited at UL International (UK) Ltd.

The results of factory production control shall be recorded and evaluated in accordance with the provisions of the Control Plan.

¹ Official Journal of the European Communities L178/52 of 14/7/1999

Other tasks of the manufacturer

Additional information

The manufacturer shall provide a technical data sheet and an installation instruction with the following minimum information:

(a) Technical data sheet:

- Field of application:
- Building elements for which the penetration seal is suitable, type and properties of the building elements like minimum thickness, density, and - in case of lightweight constructions – the construction requirements.
- Limits in size, minimum thickness etc. of the penetration seal
- Construction of the penetration seal including the necessary components and additional products (e.g. backfilling material) with clear indication whether they are generic or specific.

(b) Installation instruction:

- Steps to be followed
- Procedure in case of retrofitting
- Stipulations on maintenance, repair and replacement

6 Issued on:

11th May 2015

Report by:



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Reviewed by:



C. W. Miles
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For and on behalf of UL International (UK) Ltd.

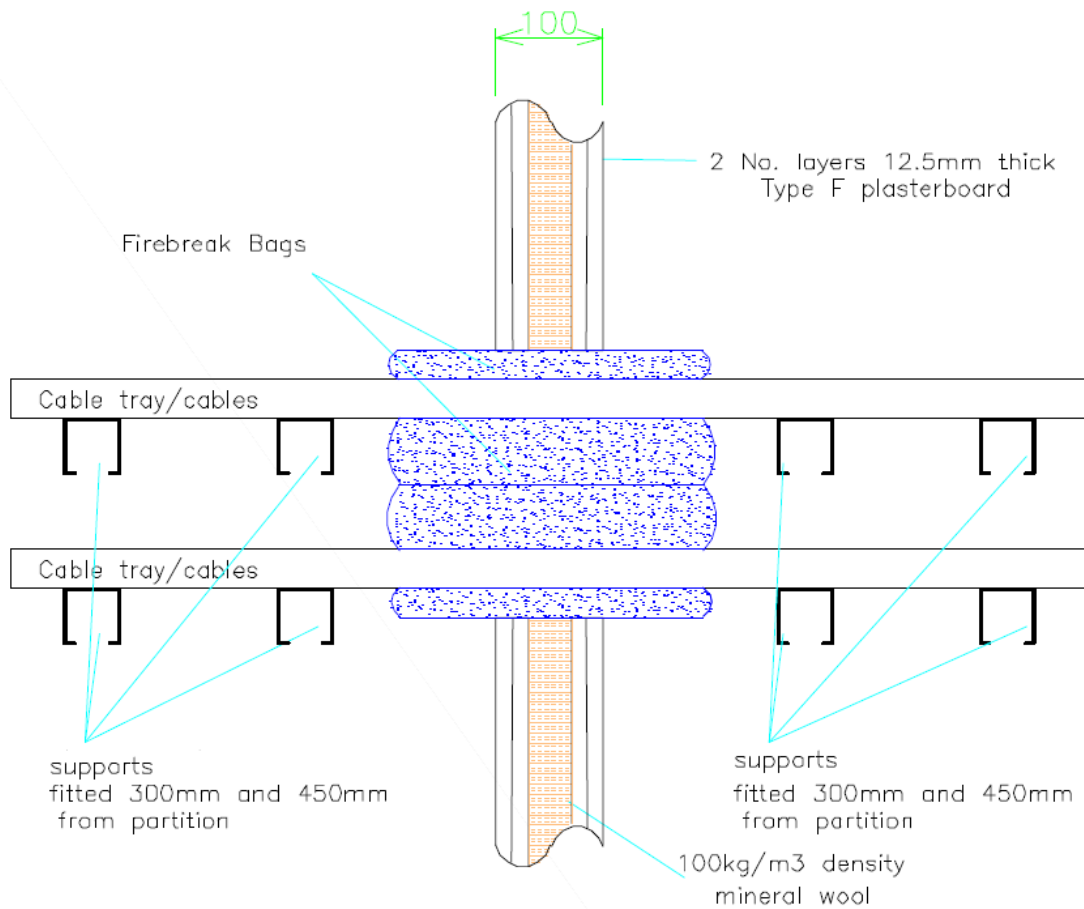
ANNEX A – Resistance to Fire Classification – Firebreak Bag

A.1 Flexible or rigid wall constructions with wall thickness of minimum 100 mm

A.1.1 Firebreak Bag penetration seal in flexible or rigid walls min. 100 mm thick

Penetration Seal: Cables fitted through a maximum 600 x 600 mm seal formed from 300 mm long Firebreak Bags installed length-ways within the aperture. The aperture in flexible wall constructions requires a lining of min. 100 kg/m³ stone mineral wool insulation, minimum 100 mm deep (into the cavity) and finishing flush with the internal perimeter of the aperture.

Construction details:



A.1.1.1

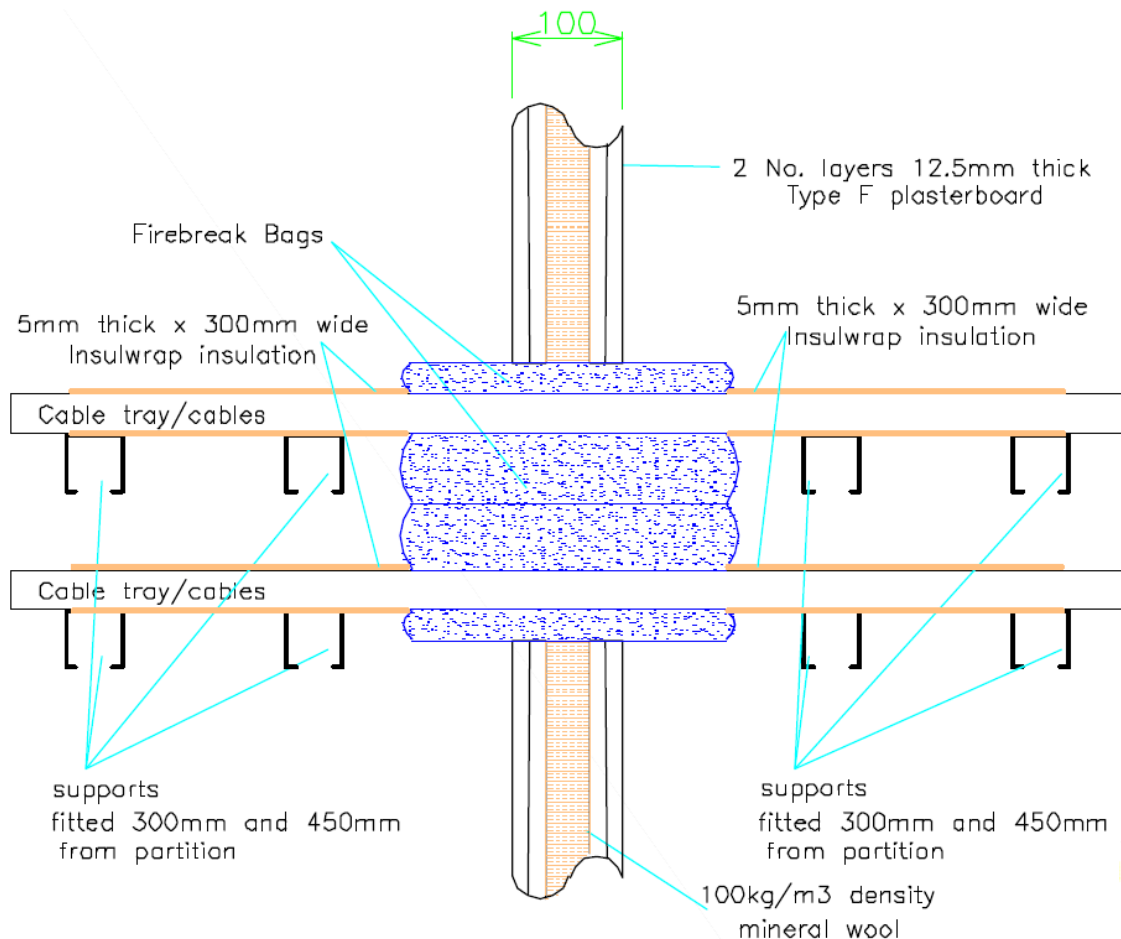
Services	Service Insulation	Classification
Electrical cables up to 80 mm diameter, single or in a bundle	None	E 90, EI 30
Unsheathed electrical wires up to 24 mm diameter		EI 90
Up to 21 mm diameter telecoms , single or in bundles up to 100 mm diameter		
Steel cable trays and ladders up to 500 mm wide		

Specific cables	Service Insulation	Classification
Type D3, C2, B electrical cables, single or in a bundle	None	E 90, EI 60
Type D2, A2, A1, C1, C3, D1 electrical cables, single or in a bundle		EI 90

A.1.2 Firebreak Service Transit penetration seal in flexible or rigid walls min. 100 mm thick

Penetration Seal: Cables fitted through a maximum 600 x 600 mm seal formed from 300 mm long Firebreak Bags installed length-ways within the aperture. The aperture in flexible wall constructions requires a lining of min. 100 kg/m³ stone mineral wool insulation, minimum 100 mm deep (into the cavity) and finishing flush with the internal perimeter of the aperture.

Construction details:



A.1.2.1

Services	Service Insulation	Classification
Electrical cables up to 80 mm diameter, single or in a bundle	300 mm wide x 5 mm thick insulwrap insulation material wrapped around the tray and cables, to both sides of the seal	E 120, EI 90
Unsheathed electrical wires up to 24 mm diameter		
Unsheathed electrical wires up to 21 mm diameter		EI 120
Up to 17 mm diameter telecoms , single or in bundles up to 100 mm diameter		
Steel cable trays and ladders up to 500 mm wide		

Specific cables	Service Insulation	Classification
Type A2, C1, C2, C3, D3, D2 electrical cables, single or in a bundle	300 mm wide x 5 mm thick insulwrap insulation material wrapped around the tray and cables, to both sides of the seal	EI 120