ETA-Danmark A/S
Göteborg Plads 1
DK-2150 Nordhavn
Tel. +45 72 24 59 00
Internet www.etadanmark.dk

Authorised and notified according to Article 29 of the Regulation (EU) No 305/2011 of the European Parliament and of the Council of 9 March 2011

MEMBER OF EOTA

European Technical Assessment ETA-21/0211 of 2021/01/15

I General Part

Technical Assessment Body issuing the ETA and designated according to Article 29 of the Regulation (EU) No 305/2011: ETA-Danmark A/S	
Trade name of the construction product:	Firebreak 44 Sealfire W300 Sealfire W350 (3 references for the same product)
Product family to which the above construction product belongs:	Fire Stopping and Sealing Product: • Linear Joint and Gap Seals
Manufacturer:	Neutron Fire Technologies Limited Shire Hall Quay Street Lostwithiel Cornwall PL22 0BS www.neutronfire.com
Manufacturing plant:	B/001
This European Technical Assessment contains:	12 pages including 1 annex which form an integral part of the document
This European Technical Assessment is issued in accordance with Regulation (EU) No 305/2011, on the basis of:	EAD 350141-00-1106, September 2017.
This version replaces:	-

Translations of this European Technical Assessment in other languages shall fully correspond to the original issued document and should be identified as such.
Communication of this European Technical Assessment, including transmission by electronic means, shall be in full. However, partial reproduction may be made, with the written consent of the issuing Technical Assessment Body. Any partial reproduction has to be identified as such.

Table of Contents

I. SPECIFIC PARTS OF THE EUROPEAN TECHNICAL ASSESSMENT 4

1 Technical description of the product 4

2 Specification of the intended uses of the product in accordance with the applicable European Assessment Document (Hereinafter EAD): ETAG 026-3 6

3 Performance of the product and references to the methods used for its assessment 7

4 ASSESSMENT AND VERIFICATION OF CONSTANCY OF PERFORMANCE (HEREINAFTER AVCP) SYSTEM APPLIED, WITH REFERENCE TO ITS LEGAL BASE 8

5 Technical details necessary for the implementation of the AVCP system, as provided for in the applicable EAD 8

ANNEX A – Resistance to Fire Classification – Firebreak 44 / Sealfire W300/350 9

A.1 Rigid wall constructions according to 1.2.1 with wall thickness of minimum 150 mm 9

A.1.1 Linear joint or gap seal, vertically oriented, without backing material 9

A.1.2 Linear joint or gap seal, vertically oriented with stone wool backing 10

A.1.3 Linear joint or gap seal, vertically oriented, faced with Firebreak 22 / Sealfire W100 Sealant 11

A.2 Rigid wall constructions according to 1.2.1 with wall thickness of minimum 150 mm and timber substrate and architraves 12

A.2.1 Linear joint or gap seal, vertically or horizontally oriented, without backing material 12

I. SPECIFIC PARTS OF THE EUROPEAN TECHNICAL ASSESSMENT

1 Technical description of the product

1) Firebreak 44 / Sealfire W300/350 (3 references for the same product) is a fire resistant, expanding foam used to form linear gap seals where gaps are present in wall constructions and linear joint seals where wall constructions abut. Firebreak 44, Sealfire W300 and Sealfire W350 are identical products but are branded and packaged differently.

2) Firebreak 44 / Sealfire W300/350 (3 references for the same product) is a fire resistant, expanding foam used to form linear gap seals where gaps are present in wall constructions and linear joint seals where wall constructions abut. Firebreak 44, Sealfire W300 and Sealfire W350 are identical products but are branded and packaged differently.

3) Firebreak 44 / Sealfire W300/350 may be used in conjunction with Firebreak 22 / Sealfire W100 sealant. Firebreak 22 / Sealfire W100 sealant is the subject of ETA-13/0070 & ETA-13/0071.

4) Neutron Fire Technologies Limited has presented a declaration that Firebreak 44 / Sealfire W300/350 are compliant with the requirements of current EU legislation on Chemical Safety and specifically that:

- All requirements of the REACH regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals with its most recent adaptations to the technical progress are met:
- The products don't contain any substance requiring an authorisation according to Annex XIV of this regulation and no substance of the candidate list of substances of very high concern above the acceptable limit of 0.1 %.
- Further the requirements of annex XVII no. 56 for mixtures containing methylenediphhenyl-diisocyanate are met, according to the regulation (EC) No 552/2009 (packaging containing protective gloves and being marked with additional precautionary text).
- The safety data sheets are compliant with annex II of the REACH regulation in its most recent version, according to regulation (EU) No 453/2010.
- All requirements of the EU DPD directive 1999/45/EC concerning the classification, packaging and labelling of Dangerous Preparations, including amendments are met:
- All dangerous chemical substances ≥ 1.0 % w/w as well as all toxic, carcinogenic, toxic for reproduction and mutagenic chemical substances ≥ 0.1 % w/w (Status: annexe VI, table 3.2 of the CLP regulation and regulation (EC) No 790/2009 - the first adaptation to the technical progress) are stated in the safety data sheets.
- All these substances have been considered for the classification and labelling of the products according to the DPD directive.

In addition to the specific clauses relating to dangerous substances contained in this European technical approval, 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 Directive, these requirements need also to be complied with, when and where they apply.

5) The following information regarding the product contained within the aerosol before installation and the finished product has also been provided:

Product in aerosol in liquid state before final chemical reaction to produce the foam once the contents have been extruded

- No ingredients contained have been classified as Mutagenic

- The aerosol contains MDI (Isocyanates) which have been classified as “POSSIBLE” carcinogens
- TCPP (Tris (chloro propyl) phosphate is included as a fire retardant. CAS number 13674 – 84 – 5
- No microbiological agents are contained

Cured foam once the final polymerising reaction has taken place after the contents have been extruded.

- After the reaction the contents have changed into a different final product. The Isocyanates have reacted to form the foam and are no longer there in their own right. They have changed into the foam which is safe.
- The fire retardants still remain but they are “Locked-in” to the cured foam.

2 Specification of the intended uses of the product in accordance with the applicable European Assessment Document (Hereinafter EAD): ETAG 026-3

Detailed information and data is given in Annex A.

The intended use of system Firebreak 44 / system Sealfire W300/350 is to reinstate the fire resistance performance of gaps in and joints between rigid wall constructions.

1) The specific elements of construction that the system Firebreak 44 / Sealfire W300/350 may be used to provide a gap or joint seal in, are as follows:

   Rigid walls: The wall must have a minimum thickness of 150 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 44 / Sealfire W300/350 may be used to provide a linear joint or gap seal with specific supporting constructions and substrates (for details see Annex A).

3) The maximum permitted joint/gap width for system Firebreak 44 / system Sealfire W300/350 is 50 mm. Depending upon the requirements specified in Annex A, the joints/gaps shall be infilled with stone wool insulation material backing material and Firebreak 44 / Sealfire W300/350 foam, just with Firebreak 44 / Sealfire W300/350 foam, with Firebreak 44 / Sealfire W300/350 foam capped with Firebreak 22: Sealfire W300/350 sealant on both faces or with with Firebreak 44 / Sealfire W300/350 foam capped with timber architraves (for details see Annex A).

4) The maximum movement capability of system Firebreak 44 / Sealfire W300/350 is ≤ 7.5%

5) The provisions made in this European Technical Assessment are based on an assumed working life of the Firebreak 44 / Sealfire W300/350 of 10 years, provided that the conditions laid down in the manufacturer's instructions/datasheet 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 or the Technical Assessment Body 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.

6) Type $Y_{2\,(-5°/70°C)}$: Intended for use at internal or external sheltered conditions with high or other humidity classes, including temperatures below 0°C but without exposure to rain or UV. Includes classes Z_1 & Z_2.

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

Product-type: Sealant		Intended use: Linear Joint & Gap Seal
	Essential characteristic	Performance
	Mechanical resistance and stability	
	None	Not relevant
Safety in case of fire		
	Reaction to fire	No performance assessed
	Resistance to fire	Annex A
Hygiene, health and environment		
	Air permeability (material property)	No performance assessed
	Water permeability (material property)	No performance assessed
	Release of dangerous substances	Declaration of manufacturer
Safety in use		
	Mechanical resistance and stability	No performance assessed
	Resistance to impact/movement	No performance assessed
	Adhesion	No performance assessed
Protection against noise		
	Airborne sound insulation	No performance assessed
	Impact sound insulation	No performance assessed
Energy economy and heat retention		
	Thermal properties	No performance assessed
	Water vapour permeability	No performance assessed
General aspects relating to fitness for use		
	Durability and serviceability	Y_2

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 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 Commission[1], 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

Technical details necessary for the implementation of the AVCP system are laid down in the control plan deposited at ETA-Danmark A/S prior to CE marking

Issued in Copenhagen on 2021-01-15 by

Thomas Bruun

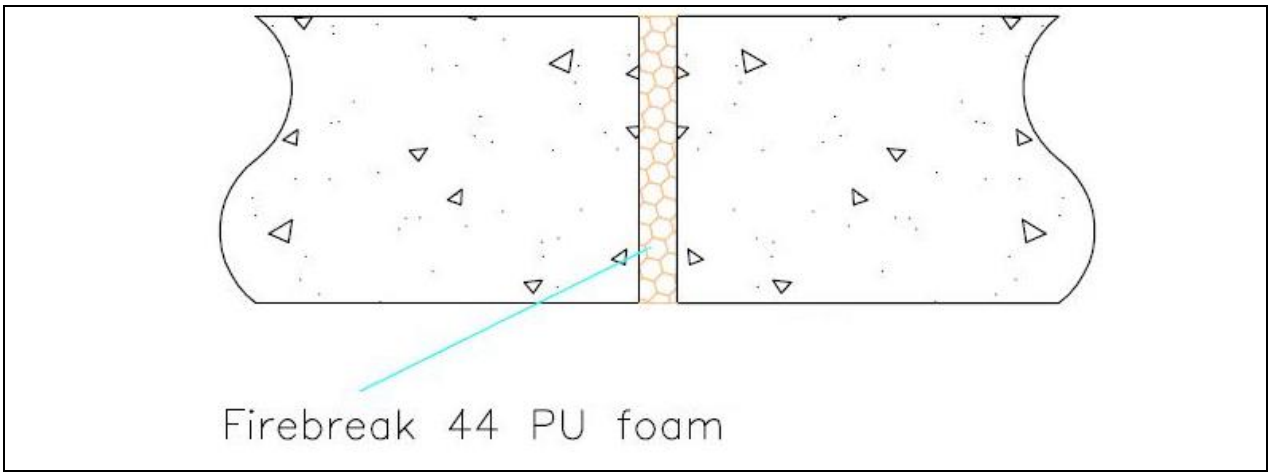
Managing Director, ETA-Danmark

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

ANNEX A – Resistance to Fire Classification – Firebreak 44 / Sealfire W300/350

A.1 Rigid wall constructions according to 1.2.1 with wall thickness of minimum 150 mm

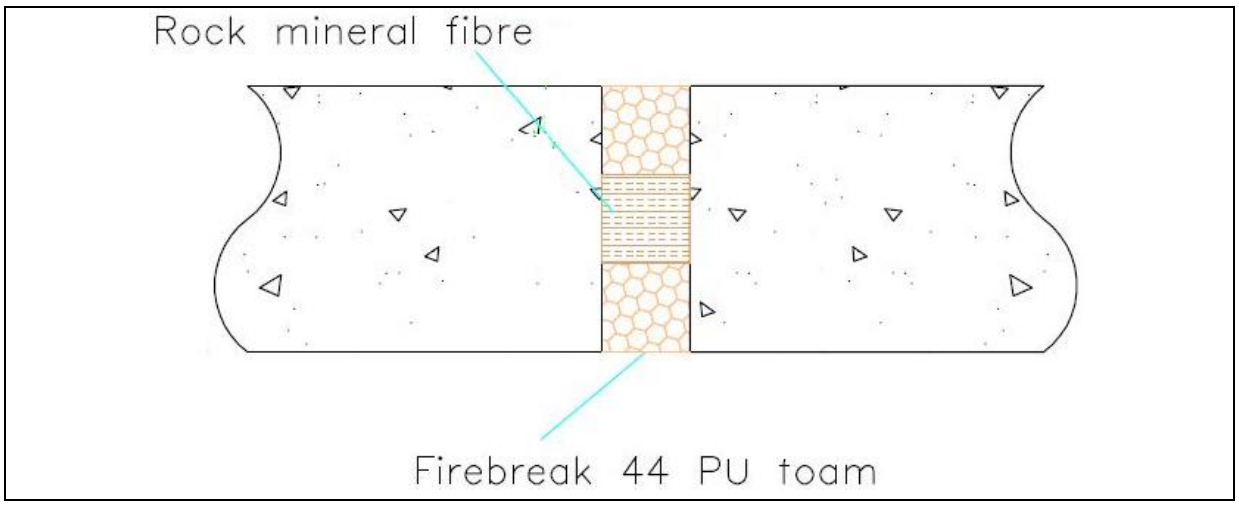
A.1.1 Linear joint or gap seal, vertically oriented, without backing material



A.1.1.1

Firebreak 44 / Sealfire W300/350 Linear Joint Seals in Rigid Walls 150 mm thick (min.) – Foam to full depth of wall			
Substrate	**Depth (mm)**	**Backing**	**Classification**
Masonry/ concrete	150 min.	None	**EI 90 – V – X – F – W 00 to 10** **EI 60 – V – X – F – W 11 to 20**

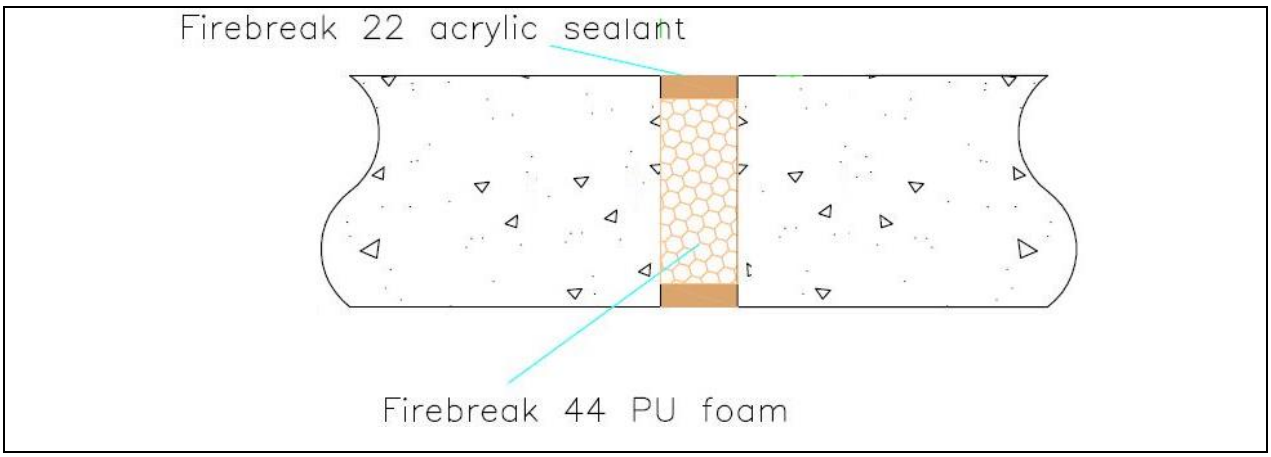
A.1.2 Linear joint or gap seal, vertically oriented with stone wool backing



A.1.2.1

Firebreak 44 / Sealfire W300/350 Linear Joint Seals in Rigid Walls 150 mm thick (min.) – Foam flush to both faces of the wall			
Substrate	**Depth (mm)**	**Backing**	**Classification**
Masonry/ concrete	50 min.	50 mm Stone wool 90 kg/m^3	**EI 180 – V – X – F – W 00 to 50**

A.1.3 Linear joint or gap seal, vertically oriented, faced with Firebreak 22 / Sealfire W100 Sealant

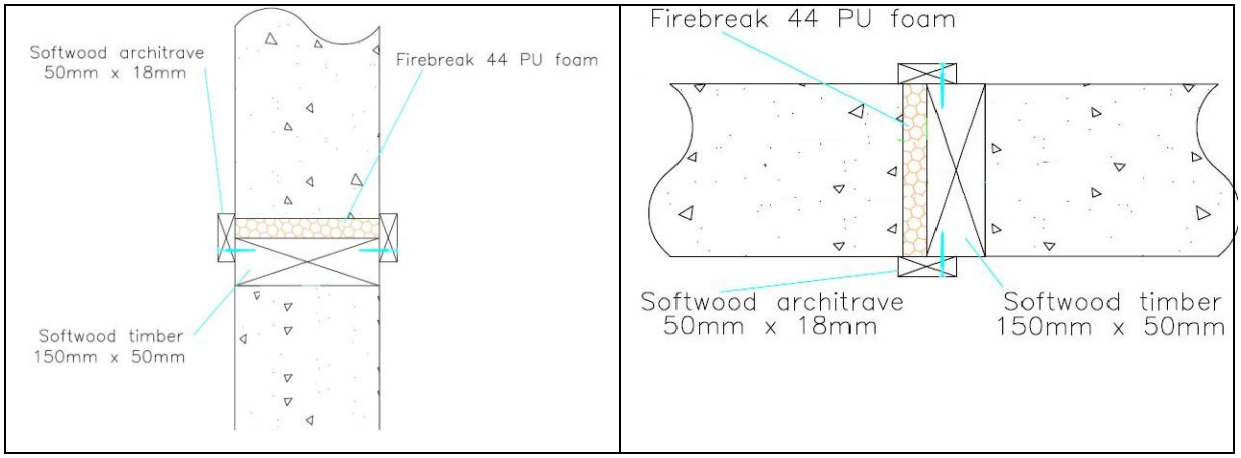


A.1.3.1

Firebreak 44 / Sealfire W300/350 Linear Joint Seals in Rigid Walls 150 mm thick (min.) – Faced with Firebreak 22 / Sealfire W100 sealant			
Substrate	**Depth (mm)**	**Facing**	**Classification**
Masonry/ concrete	130 min.	10 mm Firebreak 22 / Sealfire W100 to both faces	**EI 240 – V – X – F – W 00 to 50**

A.2 Rigid wall constructions according to 1.2.1 with wall thickness of minimum 150 mm and timber substrate and architraves

A.2.1 Linear joint or gap seal, vertically or horizontally oriented, without backing material



A.2.1.1

Firebreak 44 / Sealfire W300/350 Linear Joint Seals in Rigid Walls 150 mm thick (min.) –			
Substrate	**Depth (mm)**	**Facing**	**Classification**
Masonry/ Concrete/ timber	150 min.	Timber architrave fixed to both faces with 40 mm steel screws at nominal 200 mm vertical centres	**EI 90 – V – X – F – W 00 to 20** **EI 60 – T – X – F – W 00 to 20**