



UL INTERNATIONAL (UK) LTD
 Womersley House, Building C,
 The Guildway,
 Old Portsmouth Road,
 Guildford. GU3 1LR.
 United Kingdom.



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 14/0299 of 04/08/2014

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

Firewise Wrap

(Firewise Wrap 50 / Firewise Wrap 82 /
 Firewise Wrap 110 / Firewise Wrap 125 /
 Firewise Wrap 160, Firewise Wrap 250)

Product family to which the construction product belongs

Fire Stopping and Sealing Product:
 • Penetration Seals

Manufacturer

Firewise Supplies
 Brewery Road
 Pampisford
 Cambridge
 England
 CB22 3HG

Manufacturing plant(s)

A/006

This European Technical Assessment contains

9 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) Firewise Wrap is a pipe closure device used to form penetration seals where combustible pipes penetrate floors.
- 2) The Firewise Wrap is supplied with intumescent liner complete within polyethylene sleeve, to be wrapped around the service and cast into the supporting element. Firewise Wrap is available in 6 sizes - Firewise Wrap 50 / Firewise Wrap 82 / Firewise Wrap 110 / Firewise Wrap 125 / Firewise Wrap 160 / Firewise Wrap 250.
- 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 Firewise Wrap 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 Firewise Wrap is to reinstate the fire resistance performance of flexible wall and rigid wall and floor constructions, where they are penetrated by services.

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

Rigid floors:	The floor must have a minimum thickness of 150 mm and comprise aerated concrete or concrete with a minimum density of 650 kg/m ³ .
Mortar seals:	The mortar seal must have a minimum thickness of 100 mm and be installed within a floor as above.

The supporting construction must be classified in accordance with EN 13501-2 for the required fire resistance period.
- 2) The system Firewise Wrap 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 Firewise Wrap 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 X: intended for use at conditions exposed to weathering.

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

Product-type: Pipe Collar		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
Submission of chemical constitution or 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	X
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 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 22nd May 2014 relating to the European Technical Assessment ETA 14/0299 issued on 04/08/14 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:

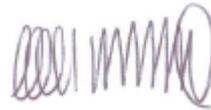
4th August 2014

Report by:



C. Johnson
Staff Engineer
Building and Life Safety Technologies

Reviewed by:



C. W. Miles
Business Manager – Europe & Latin America
Building and Life Safety Technologies

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

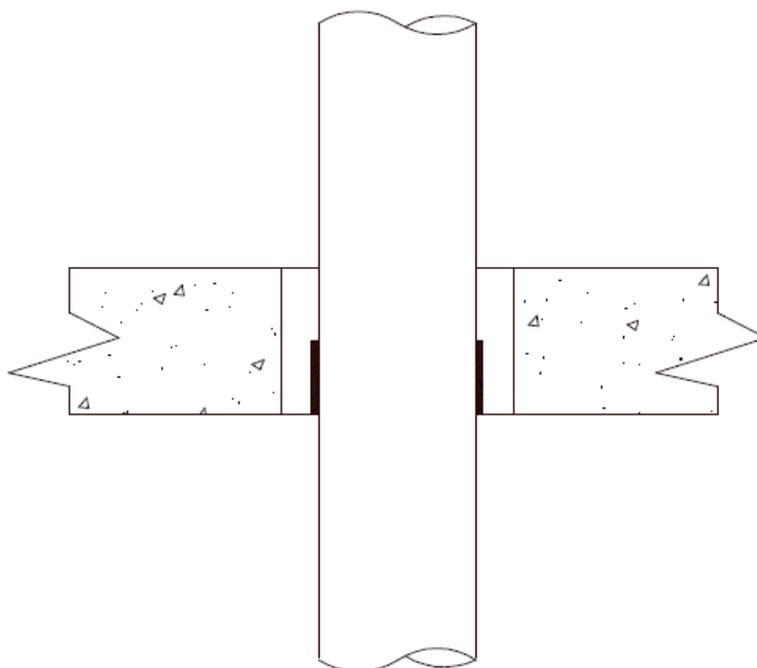
ANNEX A – Resistance to Fire Classification – Firewise Wrap

A.1 Rigid floor constructions with minimum 150 mm thickness

A.1.1 Penetration seals, in floors

Penetration Seal: Firewise Wrap, cast into soffit of the floor with fire resisting compound/mortar with 30 mm annular space/mortar seal width

Construction details:



A.1.1.1

uPVC* Pipes	Firewise Wrap Width x Thickness	Classification
50 mm \varnothing and 2.2 – 8.1 mm wall thickness	50 x 3.6 mm	EI 180 C/U
82 mm \varnothing and 2.2 – 8.1 mm wall thickness		
110 mm \varnothing and 2.2 – 8.1 mm wall thickness		
50 mm \varnothing and 3.6 – 8.1 mm wall thickness	75 x 3.6 mm	EI 240 C/U
82 mm \varnothing and 3.6 – 8.1 mm wall thickness		
110 mm \varnothing and 3.6 – 8.1 mm wall thickness		
125 mm \varnothing and 3.7 – 9.2 mm wall thickness		
160 mm \varnothing and 3.2 – 11.8 mm wall thickness	75 x 7.2 mm	

* According to EN 1452-1, EN 1329-1 or EN 1453-1. In Germany the pipe must additionally comply with DIN 19531-10

PE/ABS/SAN+PVC* Pipes	Firewise Wrap Width x Thickness	Classification
160 mm Ø and 6.2 mm wall thickness	75 x 7.2 mm	EI 180 U/C

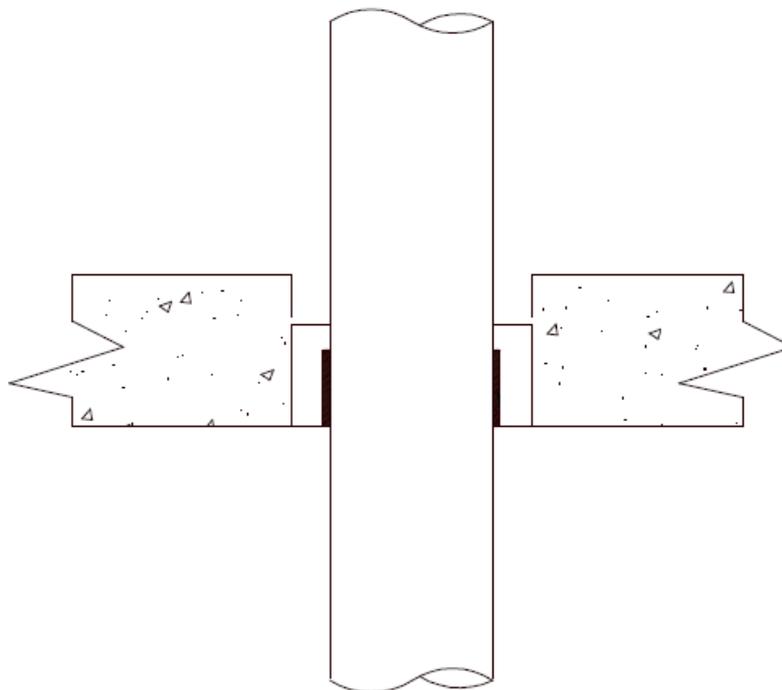
* PE According to EN 12201-2, EN 1519-1 and EN 12666-1, ABS according to EN 1455-1 and SAN+PVC according to EN 1565-1. In Germany the pipes have additionally to comply with DIN 19535-10

A.2 100 mm deep fire rated mortar seal in rigid floor constructions with floor thickness of minimum 150 mm

A.2.1 Penetration seals, in mortar seals in concrete floors

Penetration Seal: Firewise Wrap, cast into soffit of the floor with min. 100 mm deep fire resisting compound/mortar with up to 75 mm annular space/mortar seal width.

Construction details:



A.2.1.1

uPVC* Pipes	Firewise Wrap Width x Thickness	Classification
110mm Ø and 3.4 mm wall thickness	75 x 1.8 mm	EI 180 U/C
160 mm Ø and 4 mm wall thickness	75 x 5.4 mm	

* According to EN 1452-1, EN 1329-1 or EN 1453-1. In Germany the pipe must additionally comply with DIN 19531-10

PE* Pipes	Firewise Wrap Width x Thickness	Classification
110 mm Ø and 4.3 mm wall thickness	50 x 1.8 mm	EI 60 U/C
125 mm Ø and 4.9 mm wall thickness	75 x 3.6 mm	EI 180 U/C
250 mm Ø and 7.8 mm wall thickness	75 x 14.4 mm	EI 180 U/C

* PE According to EN 12201-2, EN 1519-1 and EN 12666-1. In Germany the pipes have additionally to comply with DIN 19535-10