



ETA-Danmark A/S  
Göteborg Plads 1  
DK-2150 Nordhavn  
Tel. +45 72 24 59 00  
Internet [www.etadanmark.dk](http://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-23/0076 of 2023/06/20

### 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:

FSi Pass-It® Transit System

Product family to which the  
above construction product  
belongs:

Fire stopping and sealing product:  
Penetration seals

Manufacturer:

FSi Limited  
Westminster Industrial Estate  
Tamworth Road  
UK - Measham, DE12 7DS  
Tel. + 44 1513 515130  
Internet [www.fsilttd.com](http://www.fsilttd.com)

Manufacturing plant:

FSi Limited  
Westminster Industrial Estate  
Tamworth Road  
UK - Measham, DE12 7DS

This European Technical  
Assessment contains:

9 pages including 2 annexes 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 350454-00-1104, Fire stopping and fire sealing  
products, Penetration seals

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 (excepted the confidential Annex(es) referred to above). 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

## **II SPECIFIC PART OF THE EUROPEAN TECHNICAL ASSESSMENT**

### **1 Technical description of product**

FSi Pass-It® Transit System is a cable management firestop system, intended to form a seal to reinstate the fire resistance performance of flexible walls and rigid walls constructions, where they have been provided with openings for the penetration of services.

#### **Geometry and Material**

The product FSi Pass-It® Transit System comprises a galvanised mild steel casing with a Pyropro HPE® Sealant inner lining and a plastic brush comb to the apertures on both of its faces of the transit box.

The element Pass-It® Transit System has a size of 130 mm (length) x 300 mm (width) x 100 mm (height).

Detailed specifications for identification and performance criteria relevant regard to the construction product are given in table 3.

### **2 Specification of the intended use(s) in accordance with the applicable European Assessment Document (hereinafter EAD)**

The construction product FSi Pass-It® Transit System is assessed on the basis of EAD 350454-00-1104, as a fire stopping product, cable box.

The FSi Pass-It® Transit System, is intended for use as components with a fire protection effect in walls made from concrete, aerated concrete, masonry and light weight partition that are subject to requirements related to fire protection. Their fire-resistant capability prevents heat transmission and fire spreading in the event of fire. See annex 1 for a detailed specification of the intended use.

Detailed information and data on the verified penetration seals are given in Annexes 1 and 2

The performances given in Section 3 exclusively relate to this penetration seals (e.g. with respect to the design and arrangement of the components of the penetration seals and the type and position of the services).

The provisions made in this European Technical Assessment are based on an assumed intended working life of the FSi Pass-It® Transit System at least 10 years provided the manufacturers conditions laid down in the manufacturers data sheet for the packaging, transport, storage, installation, use, maintenance and repair are met.

The indications given as to the working life of the construction product cannot be interpreted as a guarantee neither given by the product manufacturer or his representative nor by the Technical Assessment Body issuing an ETA based on the EAD No. 350454-00-1104 but are regarded only as means for expressing the expected economically reasonable working life of the product.

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

Characteristic	Assessment of characteristic
<b>3.2 Safety in case of fire (BWR2)</b>	
Reaction to fire	The product is classified as <b>Class F</b> in accordance with EN 13501-1 and Commission Delegated Regulation 2016/364
Resistance to fire	The product is classified according to EN 13501-2, information can be found in annex 1.
<b>3.3 Hygiene, health and the environment (BWR3)</b>	
Air permeability (material property)	<b>No performance assessed</b>
Water Permeability (material property)	<b>No performance assessed</b>
Content, emission and/or release of dangerous substances*	<b>No performance assessed</b>
<b>3.4 Safety in use (BWR4)</b>	
Mechanical resistance and stability	<b>No performance assessed</b>
Resistance to impact/movement	<b>No performance assessed</b>
Adhesion	<b>No performance assessed</b>
Durability	<b>Use condition: Z<sub>1</sub></b>
<b>3.5 Protection against noise (BWR5)</b>	
Airborne sound insulation	<b>No performance assessed</b>
<b>3.6 Energy Economy and heat retention (BWR6)</b>	
Thermal properties	<b>No performance assessed</b>
Water vapour permeability	<b>No performance assessed</b>

See also 3.8 and 3.9

\*) 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.

### 3.8 Methods of verification

The assessment of the performance of FSi Pass-It® Transit System in relation to the applicable BWR's has been made in accordance with the European Assessment Document (EAD) No. 350454-00-1104.

### 3.9 General aspects related to the fitness for use of the product.

The verification of durability is part of testing the essential characteristics. FSi Pass-It® Transit System may be used in end-use applications according to the provisions for use category  $Z_1$  (intended for use in internal conditions with humidity equal to or higher than 85% RH excluding temperatures below 0°C without exposure to rain or UV) without expecting significant changes of the characteristics relevant for fire protection. Products that meet the requirements for  $Z_1$ , also meets the requirements for type  $Z_2$ .

It is assumed that:

- damages to the penetration seal are repaired accordingly,
- the installation of the penetration seal does not affect the stability of the adjacent building element – even in case of fire,
- the installations are fixed to the adjacent building element in accordance with the relevant regulations in such a way that, in case of fire, no additional mechanical load is imposed to the penetration seal.
- The support of the installations is maintained for the required period of the fire resistance

The assessment does not cover the avoidance or the destruction of the penetration seal or of the adjacent building elements by forces caused by temperatures changes in case of fire.

The European Technical Assessment is issued for the product based on agreed data/information, deposited with ETA-Danmark, which identifies the product that has been assessed and judged.

Changes to the product or production process, which could result in this deposited data/information being incorrect, should be notified to ETA-Danmark before the changes are introduced.

ETA-Danmark will decide if such changes affect the ETA and consequently the validity of the CE marking based on the ETA and if so whether further assessment or alterations to the ETA, shall be necessary.

The FSi Pass-It® Transit System are manufactured in accordance with the provisions of this European Technical Assessment using the manufacturing processes as identified in the inspection of the plant by the notified inspection body and laid down in the technical documentation.

#### **4 Assessment and verification of constancy of performance (AVCP) system applied, with reference to its legal base.**

##### **4.1 AVCP system**

According to the decision 1999/454/EC of the European Commission, as amended by 2001/596/EC, the system(s) of assessment and verification of constancy of performance (see Annex V to Regulation (EU) No 305/2011) is 1.

#### **5 Technical details necessary for the implementation of the AVCP system, as foreseen 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 prior to CE marking

Issued in Copenhagen on 2023-06-20 by



Thomas Bruun  
Managing Director, ETA-Danmark

**Annex 1**  
**Product details, definitions and specification of intended use**

Product details of the FSi Pass-It® Transit System

Item	Details/Dimension																
Steel housing (Pass-It® Transit Box) <ul style="list-style-type: none"> <li>• Retaining tab of Pass-It® Transit Box at top and bottom</li> </ul>	300 mm (width) x 130 (length) x 100 mm (height) <ul style="list-style-type: none"> <li>• 25 mm wide x 0,7 mm thick</li> </ul>																
Fixing angle	15 mm x 15 mm																
Inlay made of Pyropro HPE® Sealant	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;">Layflat Length (mm +/- 5%)</td> <td style="width: 33%;"></td> <td style="width: 33%;">HPE Sachet (grams +/- 10%)</td> <td></td> </tr> <tr> <td>Width always 80mm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Top/Bottom Sides</td> <td>Top/Bottom Sides</td> <td></td> <td></td> </tr> <tr> <td style="text-align: center;">300</td> <td style="text-align: center;">100</td> <td style="text-align: center;">330</td> <td style="text-align: center;">110</td> </tr> </table>	Layflat Length (mm +/- 5%)		HPE Sachet (grams +/- 10%)		Width always 80mm				Top/Bottom Sides	Top/Bottom Sides			300	100	330	110
Layflat Length (mm +/- 5%)		HPE Sachet (grams +/- 10%)															
Width always 80mm																	
Top/Bottom Sides	Top/Bottom Sides																
300	100	330	110														
Plastic brush	Approx.. 100 mm x 5 mm																

**Intended use:**

The cable penetration seal FSi Pass-It® Transit System is intended to be used to temporarily or permanently reinstate the fire resistance performance of flexible wall constructions and rigid wall constructions where they have been provided with apertures which are penetrated by various cables.

The cable penetration seal FSi Pass-It® Transit System can be installed only in the types of separating elements as specified in the following table.

<b>Separating element</b>	<b>Construction</b>
Flexible walls	<ul style="list-style-type: none"> <li>• Steel studs or timber studs lined on both faces with minimum 2 layers of boards (minimum Thickness 12,5 mm)</li> <li>• For timber stud walls there shall be a minimum distance of 100 mm of penetration seal to any timber stud. The cavity between the penetration seal and the timber stud has to be closed with a minimum 100 mm of insulation with classification A1 or A2 according to EN 13501 – 1</li> <li>• Minimum thickness 94 mm</li> <li>• Classification according to EN13501 – 2: <math>\geq</math> EI 90</li> <li>• This European technical approval does not cover sandwich panel constructions and flexible walls where the lines does not cover studs on both sides. Penetrations in such constructions shall be tested on a case by case basis.</li> </ul>
Rigid walls	<ul style="list-style-type: none"> <li>• Aerated concrete, concrete, masonry</li> <li>• Minimum density 650 kg/m<sup>3</sup></li> <li>• Minimum thickness 100 mm</li> <li>• The rigid wall shall be classified in accordance with EN 13501 – 2 for the required fire resistance period.</li> </ul>

The Cable penetration seal FSi Pass-It® Transit System can only be configured as specified in the following annex.

Other parts or service support constructions shall not penetrate the penetration seal.

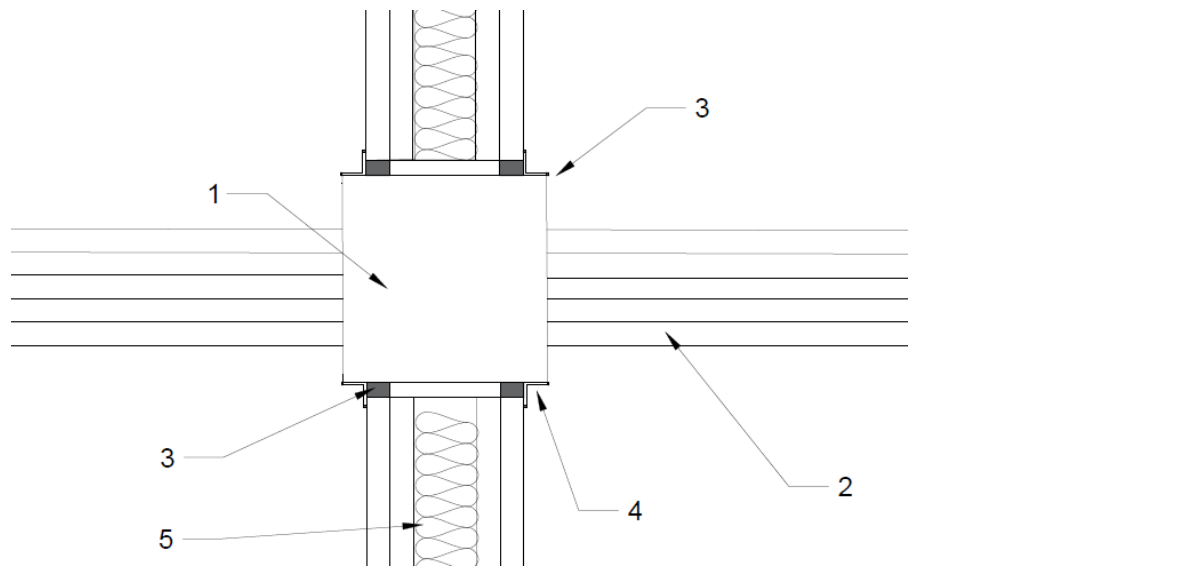


**Annex 2**  
**Detailed information for the confirmation of fire resistance**

Installation in lightweight partitions or in walls

**Penetration Seal:**  
FSi Pass-It® Transit Box fitted centrally within the aperture (max. 320 mm wide x 120 mm high).  
Maximum 10 mm annular space between FSi Pass-It® Transit Box and aperture.  
Maximum distance of first service support ≤ 260 mm.

Construction details:



Key	Description
1	FSi Pass-It® Transit System (130 mm (length) x 300 mm (width) x 100 mm (height))
2	Cables
3	Pyrocoustic Acrylic Sealant <ul style="list-style-type: none"> <li>• 10 mm (depth) applied to both surfaces of the wall between FSi Pass-It® Transit Box and aperture</li> <li>• Applied to the perimeter edges of the fixing frame on the wall</li> </ul>
4	15 mm x 15 mm fixing angle
5	Partition/Wall assembly

The classification is declared under the following conditions:

Services	Cable (bundle) size	Maximum achieved classification	
		E = Integrity	E = Integrity I = Insulation
One type “D1” electric cable (E-YCWY 4x185SM/95, MCMK 4x185/95, NYCWY 4x185SM/95, PFSP CU 4x185/95, FKKJ 4x185/95 S)	Ø 80 mm	E 120	EI 60
Bundle of type ‘F’ (20 x 2 x 0.6 mm <sup>2</sup> ) telecom cables	Ø 100 mm	E 120	EI 60