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



## European Technical Assessment ETA-21/0207 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 Service Transit

**Product family to which the above construction product belongs:**

Fire Stopping and Sealing Product:  
• Penetration Seals

**Manufacturer:**

Neutron Fire Technologies Limited  
Shire Hall  
Quay Street  
Lostwithiel  
Cornwall  
PL22 0BS  
[www.neutronfire.com](http://www.neutronfire.com)

**Manufacturing plant:**

A/005

**This European Technical Assessment contains:**

19 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 350454-00-1104, September 2017

**This version replaces:**

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**I. SPECIFIC PARTS OF THE EUROPEAN TECHNICAL ASSESSMENT**

**1 Technical description of the product**

- 1) Firebreak Service Transit is cable box device used to form penetration seals where combustible pipes, cables and metal pipes with insulation penetrate walls and floors.
- 2) The Firebreak Service Transit is supplied with intumescent liner complete within metal steel shell, to be installed within and screw fixed back to the supporting element.
- 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 Service Transit in relation to BWR 4 (safety in use) 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 Service Transit 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 Firebreak Service Transit 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/m <sup>3</sup> .
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 <sup>3</sup> .

The supporting construction must be classified in accordance with EN 13501-2 for the required fire resistance period.

- 2) The system Firebreak Service Transit 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 Service Transit 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 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.
- 4) Type Y<sub>2</sub>: 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: Cable box/transit		Intended use: Penetration Seal	
	Basic Requirement	Performance	
BWR 1 Mechanical resistance and stability			
	None	Not relevant	
BWR 2 Safety in case of fire			
	Reaction to fire	No performance assessed	
	Resistance to fire	Annex A	
BWR 3 Hygiene, health and environment			
	Air permeability (material property)	No performance assessed	
	Water permeability (material property)	No performance assessed	
	Release of dangerous substances	Use categories: IA1, S/W3 Declaration of manufacturer	
BWR 4 Safety in use			
	Mechanical resistance and stability	No performance assessed	
	Resistance to impact/movement	No performance assessed	
	Adhesion	No performance assessed	
BWR 5 Protection against noise			
	Airborne sound insulation	No performance assessed	
BWR 6 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 <sub>2</sub>	
BWR 7 Sustainable use of natural resources			
	-	No performance assessed	

**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 Commission<sup>1</sup>, 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

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

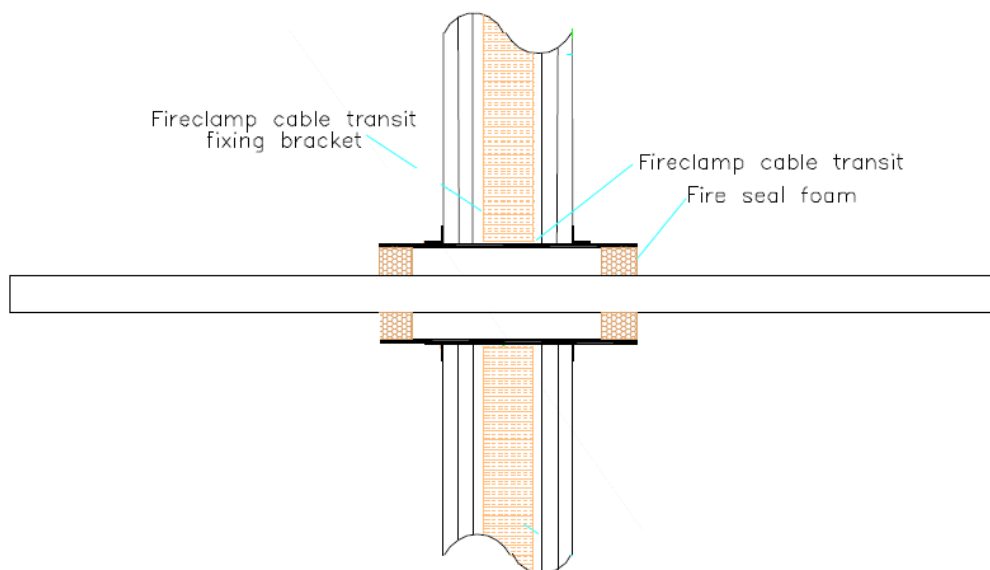
## ANNEX A – Resistance to Fire Classification – Firebreak Service Transit

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

#### A.1.1 Firebreak Service Transit penetration seal in flexible or rigid walls min. 100 mm thick

**Penetration Seal: Cables fitted through single cable Transit of dimensions, 125 x 125 mm to 1100 x 125 mm. Maximum 60% cable fill. Transit has no external insulation material.**

Construction details:



#### A.1.1.1

Services	Service Insulation	Classification
Electrical cables up to 80 mm diameter, single or in a bundle	None	E 120, EI 30
Electrical cables up to 80 mm diameter, single or in a bundle	300 mm long insulwrap to services, 5 mm thick	E 120, EI 60
Up to 21 mm diameter telecoms , single or in bundles up to 100 mm diameter	None	E 120, EI 60
Unsheathed wire up to 24 mm diameter	None	E 120, EI 30
	300 mm long insulwrap to services, 5 mm thick	E 120, EI 60

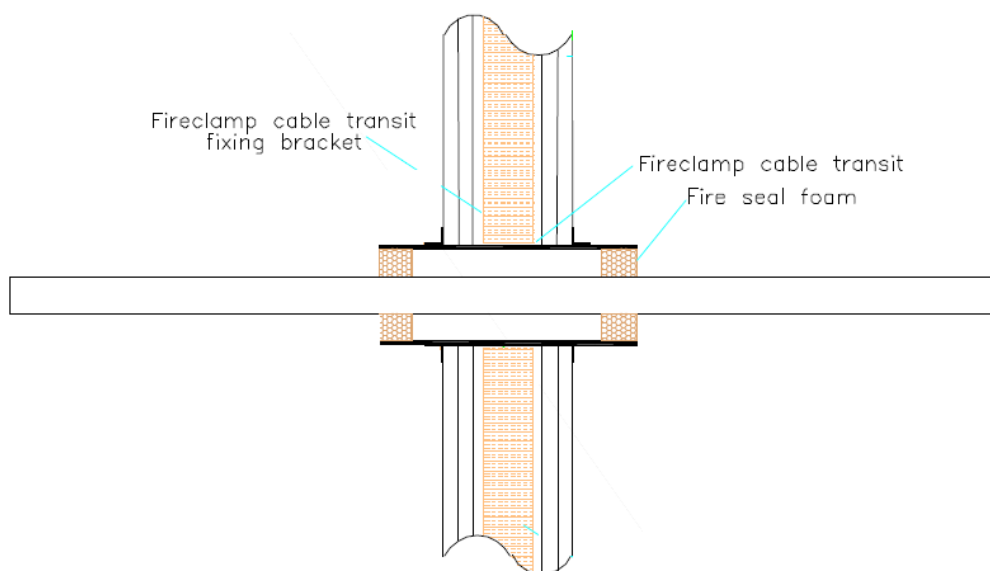
Specific cables	Service Insulation	Classification
Type C2, C3, D1, D2 electrical cables, single or in a bundle	None	E 120, EI 45
Type A1, A2, C1, A3 electrical cables, single or in a bundle		E 120, EI 60



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

**Penetration Seal: Cables fitted through single cable Transit of dimensions, 65 x 65 mm to 102 x 102 mm and 50 to 100 mm diameter. Maximum 60% cable fill. Transit has no external insulation material.**

Construction details:

**A.1.2.1**

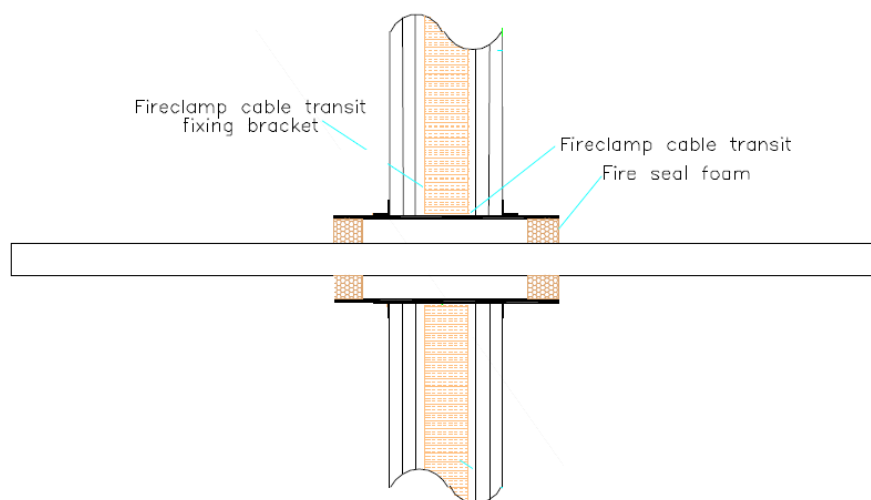
Services	Service Insulation	Classification
Electrical cables up to 80 mm diameter, single or in a bundle, Unsheathed wire up to 24 mm diameter	None	<b>E 120, EI 30</b>
Up to 21 mm diameter telecoms , single or in bundles up to 100 mm diameter		<b>E 120, EI 60</b>
Electrical cables up to 80 mm diameter, single or in a bundle, Unsheathed wire up to 24 mm diameter	300 mm long insulwrap to services, 5 mm thick	
82mm dia. x 3.2mm wall PVC Pipe to EN 1329-1, EN 1453-1 or EN 1452-1	None	<b>E 120 U/U, C/U, U/C, CC EI 60 U/U, C/U, U/C, CC</b>
54mm dia. Copper Pipe	19 mm Armaflex CS or K-Flex ST	<b>E 120 U/U EI 60 U/U</b>

Specific cables	Service Insulation	Classification
Type C2, D1, D2 electrical cables, single or in a bundle	None	<b>E 120, EI 45</b>
Type A1, C1, D3, A3 electrical cables, single or in a bundle		<b>E 120, EI 60</b>
Type C2, C3, E, D1, D2 electrical cables, single or in a bundle	300 mm long insulwrap to services, 5 mm thick	

**A.1.3 Firebreak Service Transit penetration seal in flexible or rigid walls min. 100 mm thick**

**Penetration Seal: Cables fitted through single cable Transit of dimensions, 125 x 125 mm to 1100 x 125 mm. Maximum 60% cable fill. Exposed surfaces of transit insulated with 5 mm thick insulwrap.**

Construction details:

**A.1.3.1**

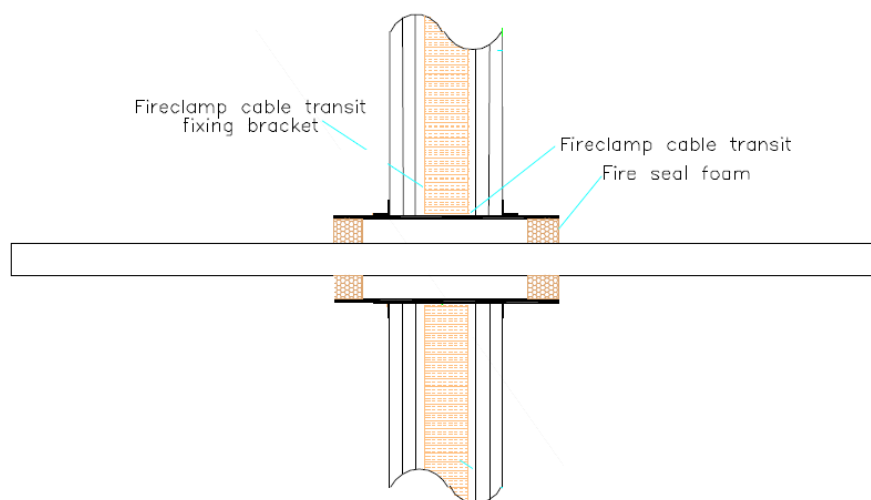
Services	Insulation	Classification
Electrical cables up to 80 mm diameter, single or in a bundle	None	E 120, EI 30
Electrical cables 22 to 80 mm diameter, single or in a bundle	300 mm long insulwrap to services, 5 mm thick	E 120, EI 90
Electrical cables up to 21 mm diameter, single or in a bundle		EI 120
Up to 21 mm diameter telecom cables, single or in bundles up to 100 mm diameter	None	E120, EI 90
Unsheathed wire up to 24 mm diameter	None	E 120, EI 30
	300 mm long insulwrap to services, 5 mm thick	E 120, EI 60

Specific cables	Insulation	Classification
Type C2, C3, D1 or D2 electrical cables, single or in a bundle	None	E120, EI 45
Type A1, A2, D3 or C1 electrical cables, single or in a bundle		E120, EI 60
Type A3 electrical cables, single or in a bundle		E120, EI 90
Type E or D2 electrical cables, single or in a bundle	300 mm long insulwrap to services, 5 mm thick	EI 120

**A.1.4 Firebreak Service Transit penetration seal in flexible or rigid walls min. 100 mm thick**

**Penetration Seal: Cables fitted through single cable Transit of dimensions, 65 x 65 mm to 102 x 102 mm and 50 to 100 mm diameter. Exposed surfaces of transit insulated with 5 mm thick insulwrap.**

Construction details:

**A.1.4.1**

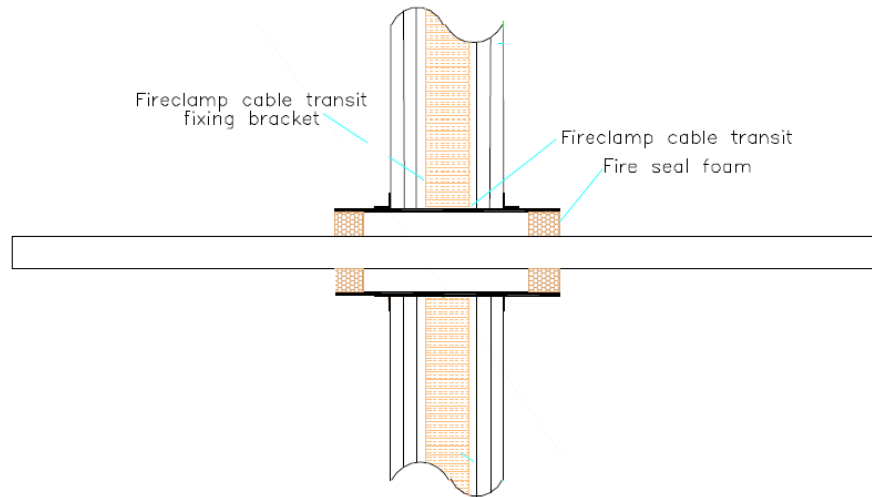
Services	Service Insulation	Classification
Electrical cables up to 80 mm diameter, single or in a bundle	None	E 120, EI 30
Electrical cables up to 80 mm diameter, single or in a bundle	300 mm long insulwrap to services, 5 mm thick	EI 120
Up to 21 mm diameter telecom cables, single or in bundles up to 100 mm diameter	None	E120, EI 90
Unsheathed wire up to 24 mm diameter	None	E 120, EI 30
	300 mm long insulwrap to services, 5 mm thick	E 120, EI 60
82mm dia. x 3.2mm wall PVC Pipe to EN 1329-1, EN 1453-1 or EN 1452-1	None	E 120 U/U, C/U, U/C, CC EI 90 U/U, C/U, U/C, CC
54mm dia. Copper Pipe	19 mm Armaflex CS or K-Flex ST	E 120 U/U EI 90 U/U

Specific cables	Service Insulation	Classification
Type C2, C3, D1 or D2 electrical cables, single or in a bundle	None	E120, EI 45
Type A1, A2, D3 or C1 electrical cables, single or in a bundle		E120, EI 60
Type A3 electrical cables, single or in a bundle		E120, EI 90

### A.1.5 Firebreak Service Transit penetration seal in flexible or rigid walls min. 100 mm thick

**Penetration Seal: Cables fitted through ganged cable Transit of dimensions, 65 x 65 mm to 102 x 102 mm. Maximum 60% cable fill. Transit has no external insulation material.**

Construction details:



#### A.1.5.1

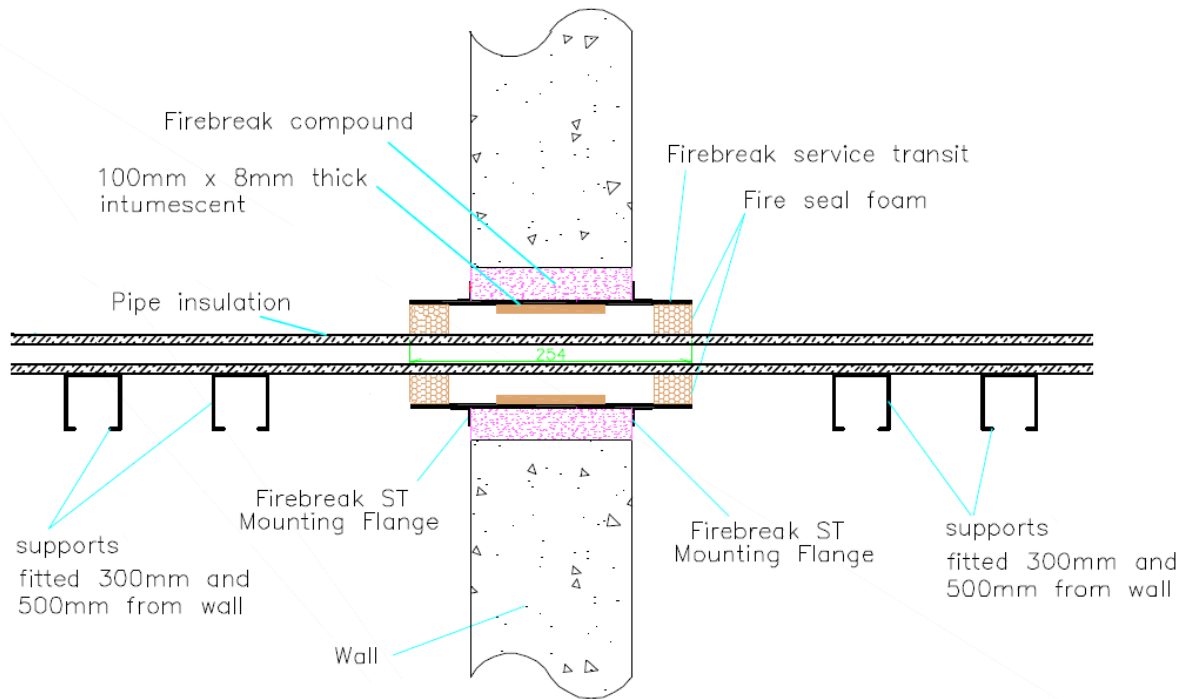
Services	Service Insulation	Classification
Type D3 electrical cables, single	None	E 120, EI 20
Up to 21 mm diameter telecoms , single or in bundles up to 100 mm diameter		
Unsheathed wire up to 24 mm diameter		E 90, EI 20
82mm dia. x 3.2mm wall PVC Pipe to EN 1329-1, EN 1453-1 or EN 1452-1	19 mm Armaflex CS or K-Flex ST	E 120 U/U, C/U, U/C, CC EI 20 U/U, C/U, U/C, CC
54mm dia. Copper Pipe		E 120 U/U EI 20 U/U

## A.2 Firebreak Service Transit penetration seal in rigid walls min. 100 mm thick

### A.2.1 Penetration seals, in concrete walls

**Penetration Seal:** Metal pipes fitted through single cable Transit of dimensions, 125 x 125 mm to 1100mm long x 125mm wide x 254mm deep. Maximum 60% service fill. Transit fitted with 50mm foam plugs to both sides and mortared in with 100 mm thick Firebreak compound to all voids around the device

Construction details:



**A.2.1.1**

<b>Services</b>	<b>Insulation</b>	<b>Classification</b>
Steel pipes 10 mm diameter / 1.0-14.2 mm wall	6 to 19 mm K-flex ST or Armaflex insulation (CS)	<b>E 240 C/C, EI 90 C/C</b>
Steel pipes 25 mm diameter / 1.2-14.2 mm wall	9 to 25 mm K-flex ST or Armaflex insulation (CS)	<b>E 240 C/C, EI 60 C/C</b>
Steel pipes 25 mm diameter / 1.2-14.2 mm wall	25 mm K-flex ST or Armaflex insulation (CS)	<b>E 240 C/C, EI 120 C/C</b>
Steel pipes 25 mm diameter / 1.2-14.2 mm wall	13 to 25 mm K-flex ST or Armaflex insulation (CS)	<b>E 240 C/C, EI 90 C/C</b>
Steel pipes 40 mm diameter / 1.5-14.2 mm wall	13 to 40 mm K-flex ST or Armaflex insulation (CS)	<b>E 240 C/C, EI 120 C/C</b>
Steel pipes 40 mm diameter / 1.5-14.2 mm wall	25 to 40 mm K-flex ST or Armaflex insulation (CS)	<b>E 240 C/C, EI 180 C/C</b>
Steel pipes 63.5 mm diameter / 1.6-14.2 mm wall	9 to 32 mm K-flex ST or Armaflex insulation (CS)	<b>E 240 C/C, EI 60 C/C</b>
Steel pipes 63.5 mm diameter / 1.6-14.2 mm wall	13-32 mm K-flex ST or Armaflex insulation (CS)	<b>E 240 C/C, EI 90 C/C</b>
Steel pipes 63.5 mm diameter / 1.6-14.2 mm wall	19-32 mm K-flex ST or Armaflex insulation (CS)	<b>E 240 C/C, EI 120 C/C</b>
Steel pipes 63.5 mm diameter / 1.6-14.2 mm wall	32 mm K-flex ST or Armaflex insulation (CS)	<b>E 240 C/C, EI 180 C/C</b>
Steel pipes 88.9 mm diameter / 1.6-14.2 mm wall	13 mm K-flex ST or Armaflex insulation (CS)	<b>E 240 C/C, EI 90 C/C</b>
Copper pipes 10 mm diameter / 1.2-14.2 mm wall	6 mm K-flex ST or Armaflex insulation (CS)	<b>E 240 C/C, EI 90 C/C</b>
Copper pipes 28 mm diameter / 1.5-14.2 mm wall	9 mm K-flex ST or Armaflex insulation (CS)	<b>E 240 C/C, EI 90 C/C</b>
Copper pipes 42 mm diameter / 1.5-14.2 mm wall	13 to 40 mm K-flex ST or Armaflex insulation (CS)	<b>E 240 C/C, EI 90 C/C</b>
Copper pipes 42 mm diameter / 1.5-14.2 mm wall	19 to 40 mm K-flex ST or Armaflex insulation (CS)	<b>E 240 C/C, EI 120 C/C</b>
Copper pipes 42 mm diameter / 1.5-14.2 mm wall	32-40 mm K-flex ST or Armaflex insulation (CS)	<b>E 240 C/C, EI 180 C/C</b>

CS – Continuous Sustained insulation

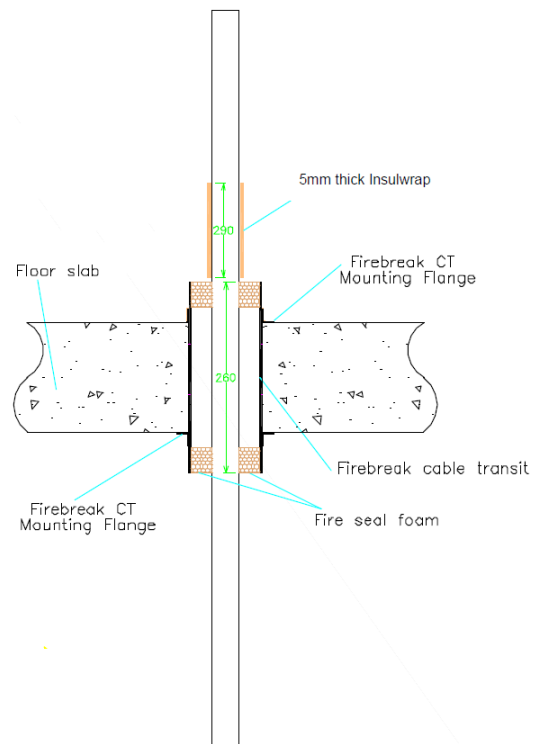
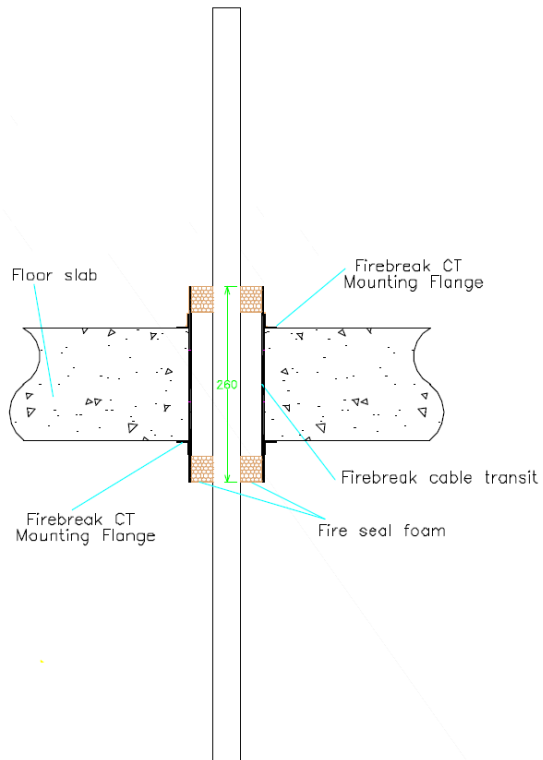
C/C – Capped/Capped

### A.3 Firebreak Service Transit penetration seal in rigid floors min. 150 mm thick

#### A.3.1 Penetration seals, in concrete floors

**Penetration Seal: Cables fitted through single and ganged cable Transit of dimensions, 65 x 65 mm to 102 x 102 mm. Maximum 60% cable fill. Transit has no external insulation material.**

Construction details:



#### A.3.1.1

Services	Service Insulation	Classification
Electrical cables up to 80 mm diameter, single or in a bundle	None	<b>E 180, EI 30</b>
Electrical cables up to 21 mm diameter, single or in a bundle		<b>E 240, EI 60</b>
Telecom cables up to 21 mm diameter, single or in a bundle		
Electrical cables up to 80 mm diameter, single or in a bundle	300 mm long insulwrap to services, 5 mm thick	<b>E 180, EI 45</b>
Electrical cables up to 21 mm diameter, single or in a bundle		<b>E 240, EI 60</b>
Telecom cables up to 21 mm diameter, single or in a bundle		
82mm dia. x 3.2mm wall PVC Pipe to EN 1329-1, EN 1453-1 or EN 1452-1	None	<b>E 240 U/U, C/U, U/C, C/C</b> <b>EI 60 U/U, C/U, U/C, C/C</b>

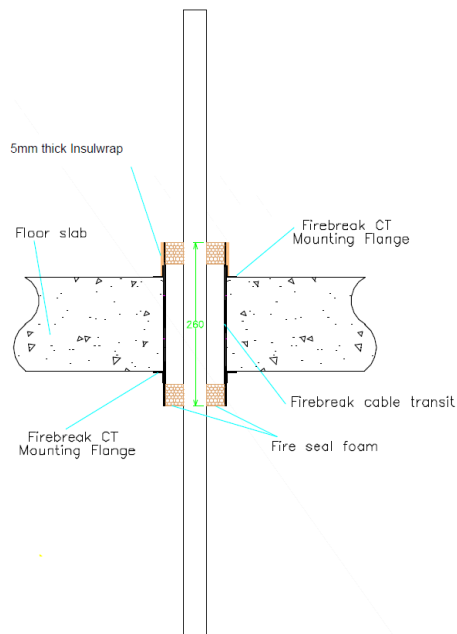
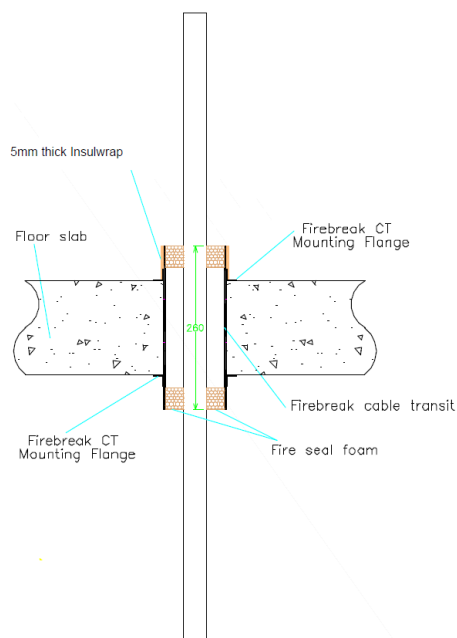
Specific cables	Service Insulation	Classification
Type C3 electrical cables, single or in a bundle	None	E 240, EI 30
Type D3 or C2 electrical cables, single or in a bundle		E 240, EI 45
Type C1 or B electrical cables, single or in a bundle		E240, EI 60



### A.3.2 Penetration seals, in concrete floors

**Penetration Seal: Cables fitted through single and ganged cable Transit of dimensions, 65 x 65 mm to 102 x 102 mm. Maximum 60% cable fill. Exposed surfaces of transit insulated with 5 mm thick insulwrap**

Construction details:



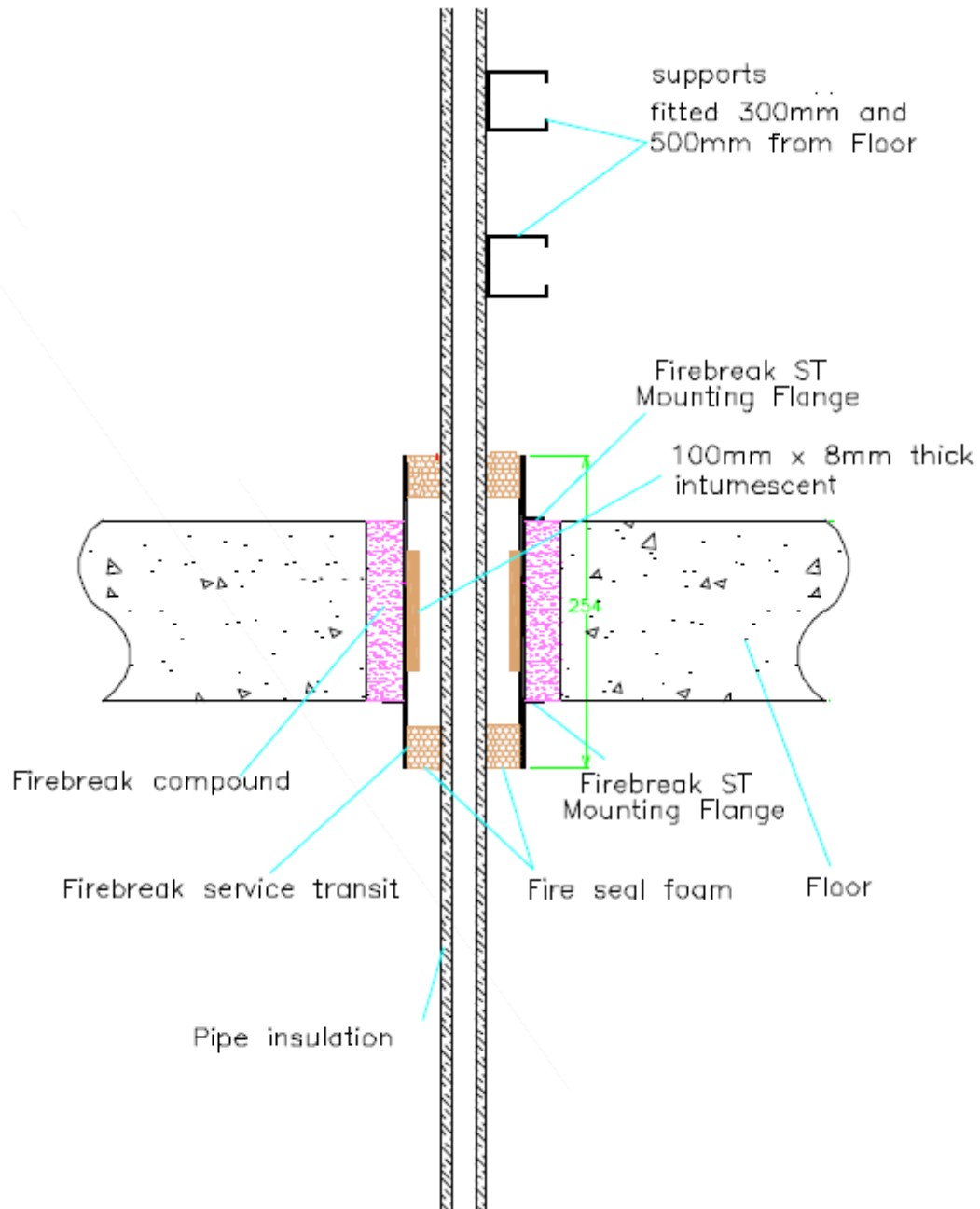
#### A.3.2.1

Services	Insulation	Classification
Electrical cables 51 to 80 mm diameter, single	None	<b>E 240, EI 30</b>
Electrical cables 22 to 50 mm diameter, single		<b>E 180, EI 30</b>
Electrical cables up to 21 mm diameter, single or in a bundle		<b>E 240, EI 60</b>
Telecom cables up to 21 mm diameter, single or in a bundle		<b>E 240, EI 60</b>
Electrical cables 51 to 80 mm diameter, single	300 mm long insulwrap to services, 5 mm thick	<b>E 180, EI 90</b>
Electrical cables 22 to 50 mm diameter, single		<b>E 240, EI 90</b>
Electrical cables up to 21 mm diameter, single or in a bundle		<b>E 240, EI 120</b>
Telecom cables up to 21 mm diameter, single or in a bundle		
82mm dia. x 3.2mm wall PVC Pipe to EN 1329-1, EN 1453-1 or EN 1452-1	None	<b>E 240 U/U, C/U, U/C, C/C</b> <b>EI 120 U/U, C/U, U/C, C/C</b>
Specific cables	Service Insulation	Classification
Type C1, C2, C3, D2, D3 electrical cables, single or in a bundle	300 mm long insulwrap to services, 5 mm thick	<b>E 240, EI 120</b>

### A.3.3 Penetration seals, in concrete floors

**Penetration Seal:** Metal pipes fitted through single cable Transit of dimensions, 125 x 125 mm to 1100mm long x 125mm wide x 254mm deep. Maximum 60% service fill. Transit fitted with 50mm foam plugs to both sides and mortared in with 100 mm thick Firebreak compound to all voids around the device

Construction details:



**A.3.3.1**

<b>Services</b>	<b>Insulation</b>	<b>Classification</b>
Steel pipes 10 mm diameter / 1.0-14.2 mm wall	6 to 19 mm K-flex ST or Armaflex insulation (CS)	<b>E 240 C/C, EI 120 C/C</b>
Steel pipes 25 mm diameter / 1.2-14.2 mm wall	9 to 25 mm K-flex ST or Armaflex insulation (CS)	<b>E 240 C/C, EI 120 C/C</b>
Steel pipes 40 mm diameter / 1.5-14.2 mm wall	13 to 40 mm K-flex ST or Armaflex insulation (CS)	<b>E 240 C/C, EI 180 C/C</b>
Steel pipes 40 mm diameter / 1.5-14.2 mm wall	19 to 40 mm K-flex ST or Armaflex insulation (CS)	<b>E 240 C/C, EI 120 C/C</b>
Steel pipes 40 mm diameter / 1.5-14.2 mm wall	40 mm K-flex ST or Armaflex insulation (CS)	<b>E 240 C/C, EI 120 C/C</b>
Steel pipes 63.5 mm diameter / 1.6-14.2 mm wall	9 to 32 mm K-flex ST or Armaflex insulation (CS)	<b>E 240 C/C, EI 90 C/C</b>
Steel pipes 63.5 mm diameter / 1.6-14.2 mm wall	13-32 mm K-flex ST or Armaflex insulation (CS)	<b>E 240 C/C, EI 120 C/C</b>
Steel pipes 88.9 mm diameter / 1.6-14.2 mm wall	13 mm K-flex ST or Armaflex insulation (CS)	<b>E 240 C/C, EI 120 C/C</b>
Copper pipes 10 mm diameter / 1.2-14.2 mm wall	6 to 19 mm K-flex ST or Armaflex insulation (CS)	<b>E 240 C/C*</b>
Copper pipes 10 mm diameter / 1.2-14.2 mm wall	19 mm K-flex ST or Armaflex insulation (CS)	<b>E 240 C/C, EI 120 C/C</b>
Copper pipes 28 mm diameter / 1.5-14.2 mm wall	9 to 25 mm K-flex ST or Armaflex insulation (CS)	<b>E 240 C/C, EI 120 C/C</b>
Copper pipes 42 mm diameter / 1.5-14.2 mm wall	13 to 40 mm K-flex ST or Armaflex insulation (CS)	<b>E 240 C/C, EI 90 C/C</b>
Copper pipes 42 mm diameter / 1.5-14.2 mm wall	40 mm K-flex ST or Armaflex insulation (CS)	<b>E 240 C/C, EI 120 C/C</b>

CS – Continuous Sustained insulation

C/C – Capped/Capped

\* No insulation classification obtained due to test instrument failure