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-21/0215 of 2021/01/03

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:	Soudatransit P FR
Product family to which the above construction product belongs:	Fire Stopping and Sealing Product: • Penetration Seals
Manufacturer:	Soudal OY Teollisustie, 51200 Kangasniemi Finland
Manufacturing plant:	A/003
This European Technical Assessment contains:	18 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:	-

Table of Contents

I. SPECIFIC PARTS OF THE EUROPEAN TECHNICAL ASSESSMENT

1 Technical description of the product

1) Soudatransit P FR is a cable box device used to form penetration seals where cables and conduits penetrate walls and floors.

2) The Soudatransit P FR is supplied with intumescent liner complete within a hinged Polyproylene shell, to be closed around the services and inserted into the aperture in 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 Soudatransit P FR 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): EAD 350454-00-1104

Detailed information and data is given in Annex A.

The intended use of system Soudatransit P FR 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 Soudatransit P FR may be used to provide a penetration seal in, are as follows:

Flexible walls:	The wall must have a minimum thickness of 75 mm and comprise steel studs lined on both faces with minimum 1 layer of 12.5 mm thick boards.
Rigid walls:	The wall must have a minimum thickness of 75 mm and comprise concrete, aerated concrete or masonry, with a minimum density of 650 kg/m3.
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/m3.

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

2) The system Soudatransit P FR 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 Soudatransit P FR of 30 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 Z_2: intended for use at internal conditions with humidity classes other than Z_1, excluding temperatures below 0°C.

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

Product-type: Intumescent sheet		Intended use: Penetration Seal
	Essential characteristic	Product performance
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	No performance assessed
	Water permeability	No performance assessed
	Content, emission and/or 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
	Durability	Z_2
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

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[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 2021-01-03 by

Thomas Bruun

Managing Director, ETA-Danmark

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

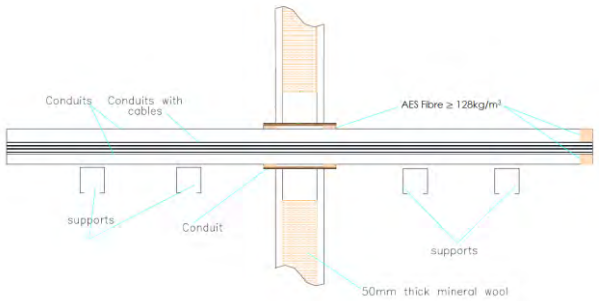
ANNEX A – Resistance to Fire Classification – Soudatransit P FR

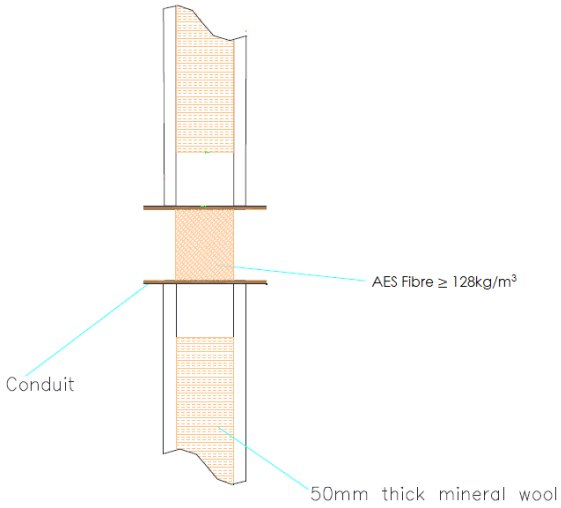
A.1 Flexible or rigid wall constructions with wall thickness of minimum 75 mm

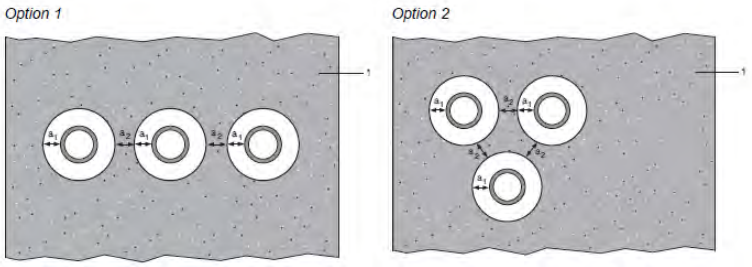
A.1.1 Penetration seals, in drywalls (min. 1 x 12.5 mm board per side) and concrete/masonry walls

Penetration Seal: Cables and conduits fitted with 150 mm long Soudatransit P FR, central within the wall. Spaces around cables and conduits within the device are sealed with 50 mm deep AES Fibre ≥ 128kg/m^3 installed centrally. Min. Separation between seals (a2) = 30 mm. Min. Separation between seals (a2) = 30 mm, min. Separation between transit and supporting construction (a1) = 0 mm.

Construction details:







Key

1	Supporting construction
a_1	Pipe / edge of seal separation (annular space)
a_2	Separation between penetration seals

Figure E.2 — Standard configuration for single pipe penetration seals

A.1.1.1

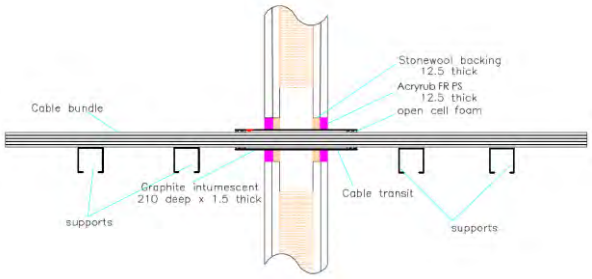
Services	Inlay size	Transit size	Classification
Up to 35 mm diameter bundle of cables up to 14 mm diameter	1.5 mm thick by 150 mm long	40 mm Ø x 150 mm long	**EI 60**
Up to 50 mm diameter bundle of cables up to 14 mm diameter	2.0 mm thick by 150 mm long	63 mm Ø x 150 mm long	
Up to 80 mm diameter bundle of cables up to 14 mm diameter	4.0 mm thick by 150 mm long	90 mm Ø x 150 mm long	
Up to 100 mm diameter bundle of cables up to 14 mm diameter	4.5 mm thick by 150 mm long	110 mm Ø x 150 mm long	
Empty filled at mid-depth with 50 mm deep plug of AES Fibre ≥ 128kg/m^3	All inlay sizes specified above	All transit sizes specified above	**E 60** **EI 30**
Up to 32mm diameter plastic pipes in bundle, empty or with penetrating bundle of cables up to 14 mm diameter			**EI 60 U/C**

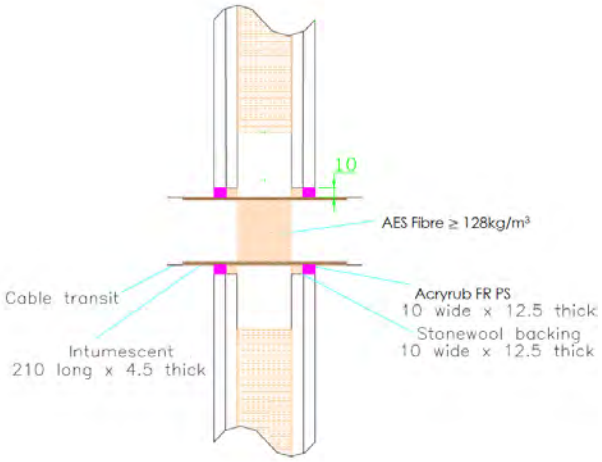
A.2 Flexible or rigid wall constructions with wall thickness of minimum 100 mm

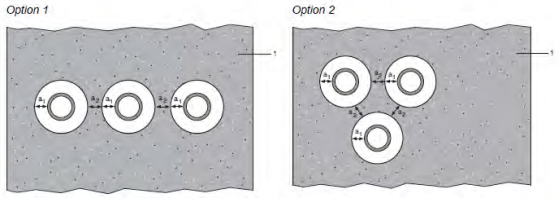
A.2.1 Penetration seals, in drywalls (min. 2 x 12.5 mm board per side) and concrete/masonry walls

Penetration Seal: Cables and conduits fitted with 250 mm long Soudatransit P FR, central within the wall. Spaces around cables and conduits within the device are sealed with 50 mm deep AES Fibre ≥ 128kg/m^3 installed centrally. Min. Separation between seals (a2) = 30 mm, min. Separation between transit and supporting construction (a1) = 0 mm A.2.1.1 and minimum 10 mm with maximum aperture 300 x 300mm A.2.1.2.

Construction details:



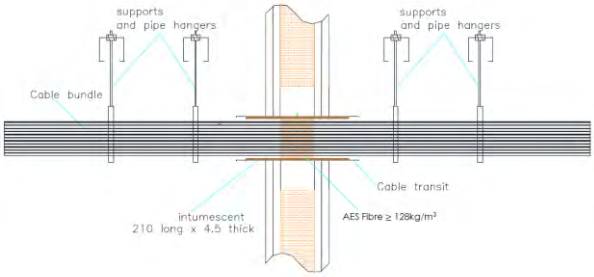




Key

1 Supporting construction
a_1 Pipe / edge of seal separation (annular space)
a_2 Separation between penetration seals

Figure E.2 — Standard configuration for single pipe penetration seals



A.2.1.1 – FR Service transit friction fitted into wall

Services	Inlay size	Transit size	Classification
Up to 35 mm diameter bundle of cables up to 14 mm diameter	1.5 mm thick by 210 mm long	40 mm Ø x 250 mm long	**EI 90**
Up to 50 mm diameter bundle of cables up to 14 mm diameter	2.0 mm thick by 210 mm long	63 mm Ø x 250 mm long	
Up to 80 mm diameter bundle of cables up to 14 mm diameter	4.0 mm thick by 210 mm long	90 mm Ø x 250 mm long	
Up to 100 mm diameter bundle of cables up to 14 mm diameter	4.5 mm thick by 210 mm long	110 mm Ø x 250 mm long	
Empty filled at mid-depth with 50 mm deep plug of AES Fibre ≥ 128kg/m^3	All inlay sizes specified above	All transit sizes specified above	**E 90** **EI 60**
Up to 32mm diameter plastic pipes in bundle, empty or with penetrating bundle of cables up to 14 mm diameter			**EI 90 U/C**

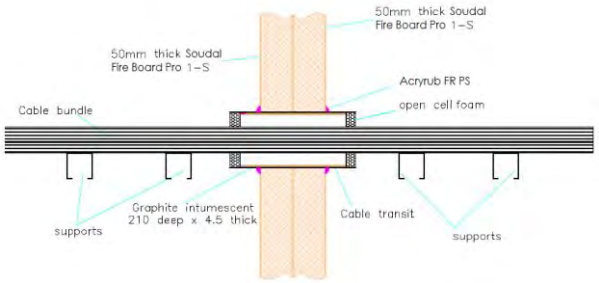
A.2.1.2 – FR Service Transit in minimum 20 mm oversize aperture fitted with Acryrub FR PS.

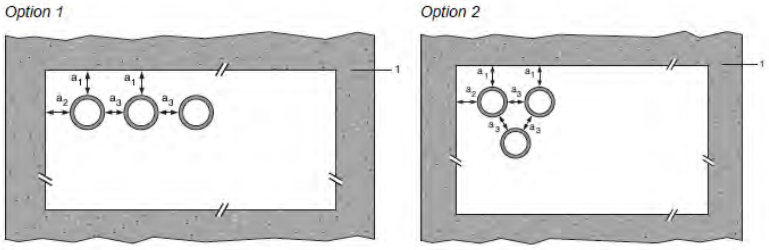
Services	Inlay size	Transit size	Classification
Up to 35 mm diameter bundle of cables up to 14 mm diameter	1.5 mm thick by 210 mm long	40 mm Ø x 250 mm long	**EI 90**
Up to 50 mm diameter bundle of cables up to 14 mm diameter	2.0 mm thick by 210 mm long	63 mm Ø x 250 mm long	
Up to 80 mm diameter bundle of cables up to 14 mm diameter	4.0 mm thick by 210 mm long	90 mm Ø x 250 mm long	
Up to 100 mm diameter bundle of cables up to 14 mm diameter	4.5 mm thick by 210 mm long	110 mm Ø x 250 mm long	
Empty filled at mid-depth with 50 mm deep plug of AES Fibre ≥ 128kg/m^3	All inlay sizes specified above	All transit sizes specified above	**EI 90**
Up to 32mm diameter plastic pipes in bundle, empty or with penetrating bundle of cables up to 14 mm diameter			**EI 90 U/C**

A.2.2 Penetration seals, in 100 mm thick Soudal Fire Board Pro 1-S seals in drywalls (min. 2 x 12.5 mm board per side) and concrete/masonry walls

Penetration Seal: Cables and conduits fitted with 250 mm long Soudatransit P FR, central within the seal. Spaces around cables and conduits within the device are sealed with 50 mm deep AES Fibre ≥ 128kg/m^3 installed centrally. Min. Separation between transits and between transits and the edges of the board seal (a1, a2, a3) = 30 mm, min.

Construction details:





Key

1	Supporting construction
a_1	Pipe / top edge of seal separation
a_2	Pipe / side edge of seal separation
a_3	Pipe / pipe separation

Figure E.1 — Standard configuration for multiple pipe penetration seals

A.2.2.1

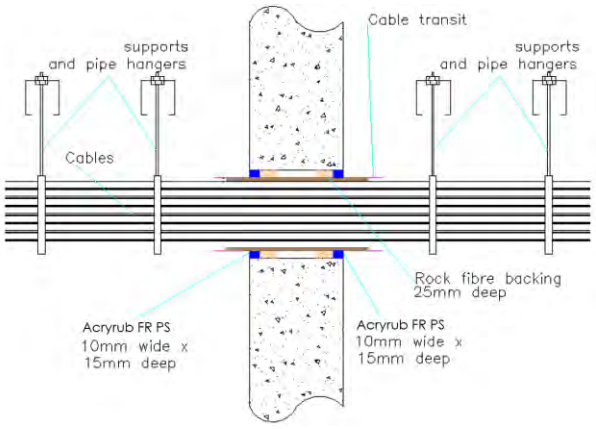
Services	Inlay size	Transit size	Classification
Up to 35 mm diameter bundle of cables up to 14 mm diameter	1.5 mm thick by 210 mm long	40 mm Ø x 250 mm long	**EI 90**
Up to 50 mm diameter bundle of cables up to 14 mm diameter	2.0 mm thick by 210 mm long	63 mm Ø x 250 mm long	
Up to 80 mm diameter bundle of cables up to 14 mm diameter	4.0 mm thick by 210 mm long	90 mm Ø x 250 mm long	
Up to 100 mm diameter bundle of cables up to 14 mm diameter	4.5 mm thick by 210 mm long	110 mm Ø x 250 mm long	
Empty filled at mid-depth with 50 mm deep plug of AES Fibre ≥ 128kg/m^3	All inlay sizes specified above	All transit sizes specified above	**E 90** **EI 60**
Up to 32mm diameter plastic pipes in bundle, empty or with penetrating bundle of cables up to 14 mm diameter			**EI 90 U/C**

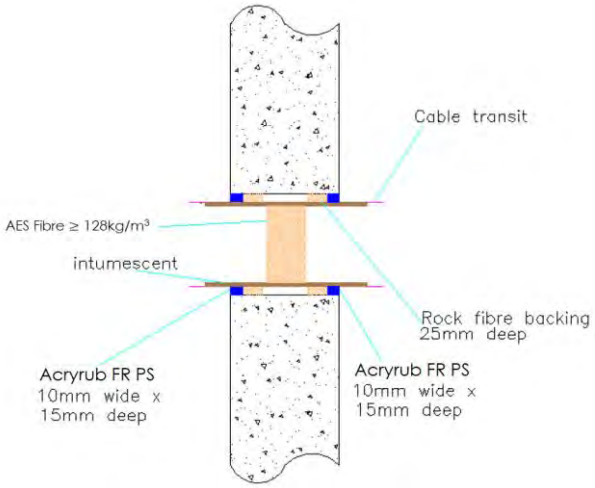
A.3 Rigid walls constructions with wall thickness of minimum 150 mm

A.3.1 Penetration seals in concrete/masonry walls

Penetration Seal: Cables and conduits fitted with 250 mm long Soudatransit P FR, central within the wall. Spaces around cables and conduits within the device are sealed with 50 mm deep AES Fibre ≥ 128kg/m^3 installed centrally. Min. Separation between seals (a2) = 30 mm, min. Separation between transit and supporting construction (a1) = 0 mm A.3.1.1 and minimum 10 mm with maximum aperture 300 x 300mm A.3.1.2.

Construction details:





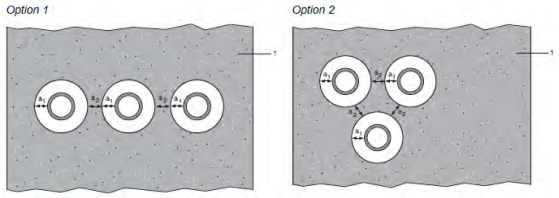
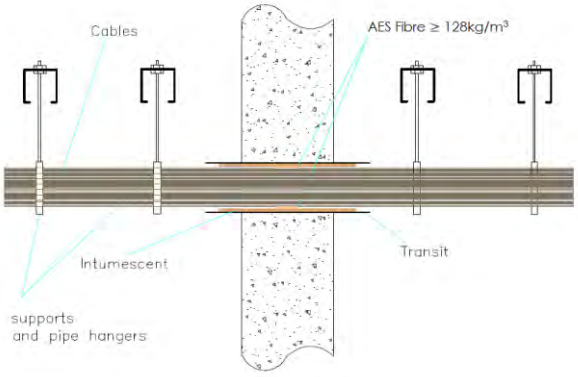


Figure E.2 — Standard configuration for single pipe penetration seals



A.3.1.1 – FR Service Transit friction fitted into wall

Services	Inlay size	Transit size	Classification
Up to 35 mm diameter bundle of cables up to 14 mm diameter	1.5 mm thick by 210 mm long	40 mm Ø x 250 mm long	**EI 240**
Up to 50 mm diameter bundle of cables up to 14 mm diameter	2.0 mm thick by 210 mm long	63 mm Ø x 250 mm long	
Up to 80 mm diameter bundle of cables up to 14 mm diameter	4.0 mm thick by 210 mm long	90 mm Ø x 250 mm long	
Up to 100 mm diameter bundle of cables up to 14 mm diameter	4.5 mm thick by 210 mm long	110 mm Ø x 250 mm long	**E 240** **EI 180**
Empty filled at mid-depth with 50 mm deep plug of AES Fibre ≥ 128kg/m^3	All inlay sizes specified above	All transit sizes specified above	**E 240** **EI 90**
Up to 32mm diameter plastic pipes in bundle, empty or with penetrating bundle of cables up to 14 mm diameter			**EI 240 U/C**

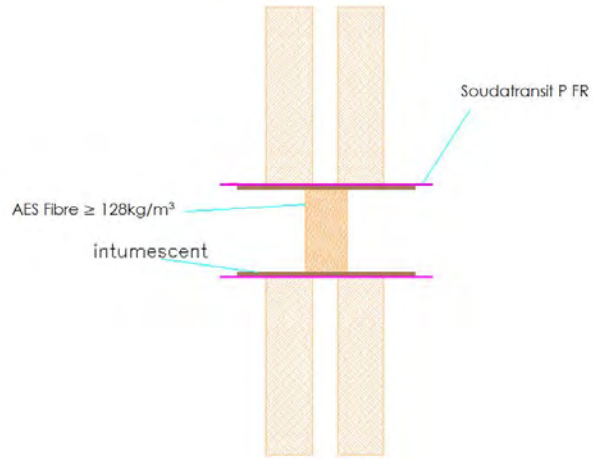
A.3.1.2 – FR Service Transit in minimum 20 mm oversize aperture fitted with Acryrub FR PS.

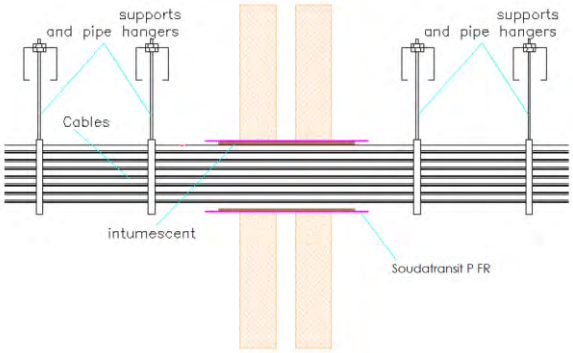
Services	Inlay size	Transit size	Classification
Up to 35 mm diameter bundle of cables up to 14 mm diameter	1.5 mm thick by 210 mm long	40 mm Ø x 250 mm long	**EI 240**
Up to 50 mm diameter bundle of cables up to 14 mm diameter	2.0 mm thick by 210 mm long	63 mm Ø x 250 mm long	
Up to 80 mm diameter bundle of cables up to 14 mm diameter	4.0 mm thick by 210 mm long	90 mm Ø x 250 mm long	
Up to 100 mm diameter bundle of cables up to 14 mm diameter	4.5 mm thick by 210 mm long	110 mm Ø x 250 mm long	**E 240** **EI 180**
Empty filled at mid-depth with 50 mm deep plug of AES Fibre ≥ 128kg/m^3	All inlay sizes specified above	All transit sizes specified above	**E 240** **EI 90**
Up to 32mm diameter plastic pipes in bundle, empty or with penetrating bundle of cables up to 14 mm diameter			**EI 240 U/C**

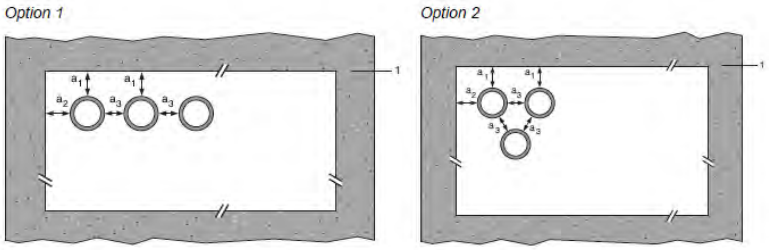
A.3.2 Penetration seals, in 150 mm thick Soudal Fire Board Pro 2-S seals (including 30 mm air gap) in concrete/masonry walls

Penetration Seal: Cables and conduits fitted with 250 mm long Soudatransit P FR, central within the seal. Spaces around cables and conduits within the device are sealed with 50 mm deep AES Fibre ≥ 128kg/m^3 installed centrally. Min. Separation between transits and between transits and the edges of the board seal (a1, a2, a3) = 30 mm, min.

Construction details:







Key

1	Supporting construction
a_1	Pipe / top edge of seal separation
a_2	Pipe / side edge of seal separation
a_3	Pipe / pipe separation

Figure E.1 — Standard configuration for multiple pipe penetration seals

A.3.2.1

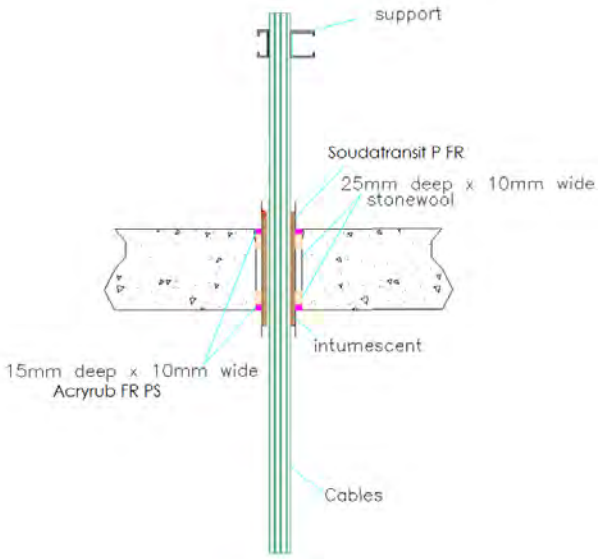
Services	Inlay size	Transit size	Classification
Up to 35 mm diameter bundle of cables up to 14 mm diameter	1.5 mm thick by 210 mm long	40 mm Ø x 250 mm long	**E 240 EI 180**
Up to 50 mm diameter bundle of cables up to 14 mm diameter	2.0 mm thick by 210 mm long	63 mm Ø x 250 mm long	
Up to 80 mm diameter bundle of cables up to 14 mm diameter	4.0 mm thick by 210 mm long	90 mm Ø x 250 mm long	**E 180 EI 120**
Up to 100 mm diameter bundle of cables up to 14 mm diameter	4.5 mm thick by 210 mm long	110 mm Ø x 250 mm long	**E 240 EI 120**
Empty filled at mid-depth with 50 mm deep plug of AES Fibre ≥ 128kg/m^3	All inlay sizes specified above	All transit sizes specified above	**E 240 EI 90**
Up to 32mm diameter plastic pipes in bundle, empty or with penetrating bundle of cables up to 14 mm diameter			**EI 90 U/C**

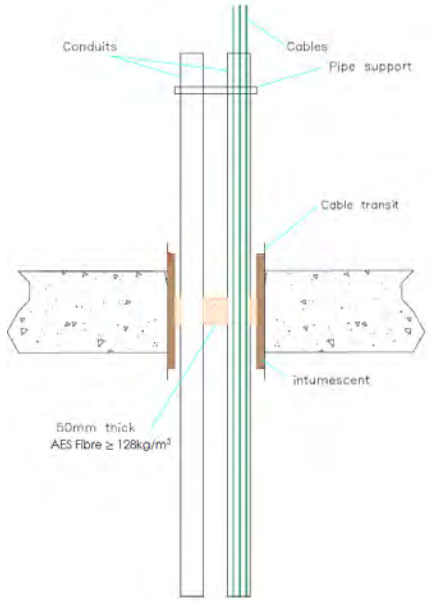
A.4 Rigid floor constructions with thickness of minimum 150 mm

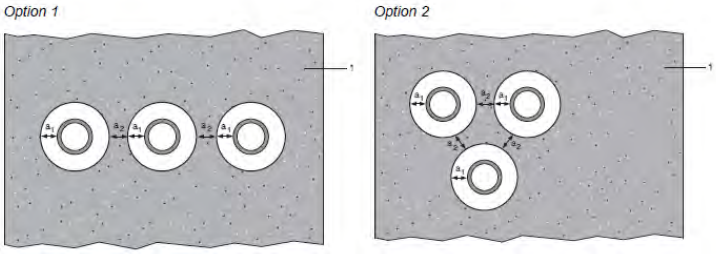
A.4.1 Penetration seals in concrete/masonry floors

Penetration Seal: Cables and conduits fitted with 250 mm long Soudatransit P FR, central within the floor. Spaces around cables and conduits within the device are sealed with 50 mm deep AES Fibre ≥ 128kg/m^3 installed centrally. Min. Separation between seals (a2) = 30 mm, min. Separation between transit and supporting construction (a1) = 0 mm A.4.1.1 and minimum 10 mm with maximum aperture 300 x 300mm A.4.1.2.

Construction details:







Key

1	Supporting construction
a_1	Pipe / edge of seal separation (annular space)
a_2	Separation between penetration seals

Figure E.2 — Standard configuration for single pipe penetration seals

A.4.1.1 – FR Service transit friction fitted into floor

Services	Inlay size	Transit size	Classification
Up to 35 mm diameter bundle of cables up to 14 mm diameter	1.5 mm thick by 210 mm long	40 mm Ø x 250 mm long	**EI 180**
Up to 50 mm diameter bundle of cables up to 14 mm diameter	2.0 mm thick by 210 mm long	63 mm Ø x 250 mm long	
Up to 80 mm diameter bundle of cables up to 14 mm diameter	4.0 mm thick by 210 mm long	90 mm Ø x 250 mm long	
Up to 100 mm diameter bundle of cables up to 14 mm diameter	4.5 mm thick by 210 mm long	110 mm Ø x 250 mm long	
Empty filled at mid-depth with 50 mm deep plug of AES Fibre ≥ 128kg/m^3	All inlay sizes specified above	All transit sizes specified above	**E 240 EI 180**
Up to 32mm diameter plastic pipes in bundle, empty or with penetrating bundle of cables up to 14 mm diameter			**E 120 C/U EI 60 C/U**

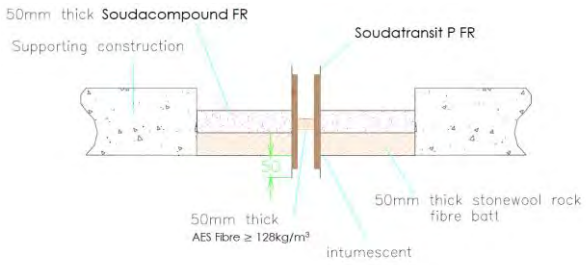
A.4.1.2 – FR Service Transit in minimum 20 mm oversize aperture fitted with Acryrub FR PS.

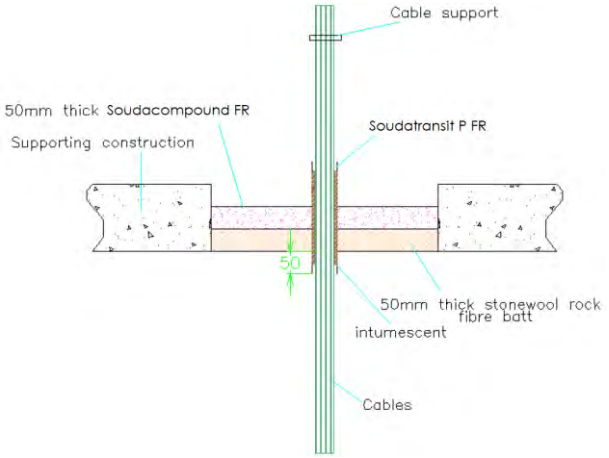
Services	Inlay size	Transit size	Classification
Up to 35 mm diameter bundle of cables up to 14 mm diameter	1.5 mm thick by 210 mm long	40 mm Ø x 250 mm long	**EI 240**
Up to 50 mm diameter bundle of cables up to 14 mm diameter	2.0 mm thick by 210 mm long	63 mm Ø x 250 mm long	**E 240 EI 180**
Up to 80 mm diameter bundle of cables up to 14 mm diameter	4.0 mm thick by 210 mm long	90 mm Ø x 250 mm long	**EI 240**
Up to 100 mm diameter bundle of cables up to 14 mm diameter	4.5 mm thick by 210 mm long	110 mm Ø x 250 mm long	**EI 180**
Empty filled at mid-depth with 50 mm deep plug of AES Fibre ≥ 128kg/m^3	All inlay sizes specified above	All transit sizes specified above	**E 240 EI 180**
Up to 32mm diameter plastic pipes in bundle, empty or with penetrating bundle of cables up to 14 mm diameter			**E 120 C/U EI 60 C/U**

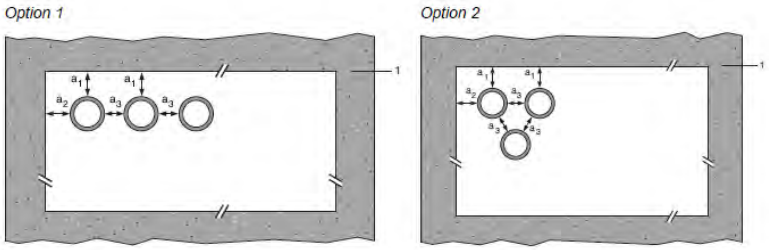
A.4.2 Penetration seals, in 50 mm thick Soudacompound FR seals (with 50 mm stone wool backer) in concrete/masonry floors

Penetration Seal: Cables and conduits fitted with 250 mm long Soudatransit P FR, central within the seal. Spaces around cables and conduits within the device are sealed with 50 mm deep AES Fibre ≥ 128kg/m^3 installed centrally. Min. Separation between transits and between transits and the edges of the board seal (a1, a2, a3) = 30 mm, min.

Construction details:







Key

1	Supporting construction
a_1	Pipe / top edge of seal separation
a_2	Pipe / side edge of seal separation
a_3	Pipe / pipe separation

Figure E.1 — Standard configuration for multiple pipe penetration seals

A.4.2.1

Services	Inlay size	Transit size	Classification
Up to 35 mm diameter bundle of cables up to 14 mm diameter	1.5 mm thick by 210 mm long	40 mm Ø x 250 mm long	**EI 240**
Up to 50 mm diameter bundle of cables up to 14 mm diameter	2.0 mm thick by 210 mm long	63 mm Ø x 250 mm long	**EI 180**
Up to 80 mm diameter bundle of cables up to 14 mm diameter	4.0 mm thick by 210 mm long	90 mm Ø x 250 mm long	**E 240** **EI 120**
Up to 100 mm diameter bundle of cables up to 14 mm diameter	4.5 mm thick by 210 mm long	110 mm Ø x 250 mm long	**EI 120**
Empty filled at mid-depth with 50 mm deep plug of AES Fibre ≥ 128kg/m^3	All inlay sizes specified above	All transit sizes specified above	**E 240** **EI 180**
Up to 32mm diameter plastic pipes in bundle, empty or with penetrating bundle of cables up to 14 mm diameter			**E 120 C/U** **EI 60 C/U**