





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 18/0136 of 14/02/2018

Technical Assessment Body issuing the E 29 of the Regulation (EU) No 305/2011:	TA and designated according to Article UL International (UK) Ltd
Trade name of the construction product	Würth Cable Transit
Product family to which the construction product belongs	Fire Stopping and Sealing Product: • Penetration Seals
Manufacturer	Würth International AG Aspermontstrasse 1 CH- 7000 Chur Switzerland
Manufacturing plant(s)	A/003
This European Technical Assessment contains	18 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	EAD 350454-00-1104, September 2017.

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

#### 1 <u>Technical description of the product</u>

- 1) Würth Cable Transit is a cable box device used to form penetration seals where cables and conduits penetrate walls and floors.
- 2) The Würth Cable Transit 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 catagory of Würth Cable Transit 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 Würth Cable 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 Würth Cable Transit 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<br/>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,<br/>aerated concrete or masonry, with a minimum density of 650 kg/m3.Disid flagment the flagment thickness of 150 mm and comprise concrete
  - Rigid floors:The floor must have a minimum thickness of 150 mm and comprise aerated<br/>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 Würth Cable 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 Würth Cable Transit 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, 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<sub>2</sub>: intended for use at internal conditions with humidity classes other than Z<sub>1</sub>, excluding temperatures below 0°C.

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

Product-type: Pipe Service Transit Intended use			netration Seal	
Assessment method	Essential characteristic		Product Performance	
BWR 2 Safety in case of fire				
EN 13501-1	Reaction to	o fire	Performance not assessed	
EN 13501-2	Resistance t	o fire	Annex A	
	BWR 3 Hygiene, health	and environment	:	
EN 1026	Air permeal	bility	No performance determined	
EAD 350454-00-1104, Annex C	Water perme	ability	No performance determined	
Declaration of manufacturer & EN 16516	Content, emission and/or release of dangerous substances		Use categories: IA1, S/W3 Declaration of manufacturer	
	BWR 4 Safety	y in use		
EOTA TR 001:2003	Mechanical resistanc	e and stability	No performance determined	
EOTA TR 001:2003	Resistance to impac	t/movement	No performance determined	
EOTA TR 001:2003	Adhesio	n	No performance determined	
EAD 350454-00-1104, Clause 2.2.9	Durabilit	ty	Z <sub>2</sub>	
	BWR 5 Protection	against noise		
EN 10140-1,2,4,5/ EN ISO 717-1	Airborne sound i	insulation	No performance determined	
	BWR 6 Energy economy	and heat retentio	'n	
EN 12664, EN 12667, EN 12939, EN ISO 8990, EN ISO 6946, EN ISO 14683, EN ISO 10211, EN ISO 10456	Thermal prop	perties	No performance determined	
EN ISO 12572, EN 12086, EN ISO 10456	Water vapour pe	rmeability	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 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 <u>Technical details necessary for the implementation of the AVCP system, as provided for in the applicable</u> <u>EAD</u>

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 6<sup>th</sup> May 2014 relating to the European Technical Assessment ETA 18/0136 issued on 14/02/18 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.

<sup>&</sup>lt;sup>1</sup> 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:

14<sup>th</sup> February 2018

Report by:

D. Yates Project Engineer Building and Life Safety Technologies

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

Reviewed by:

Min

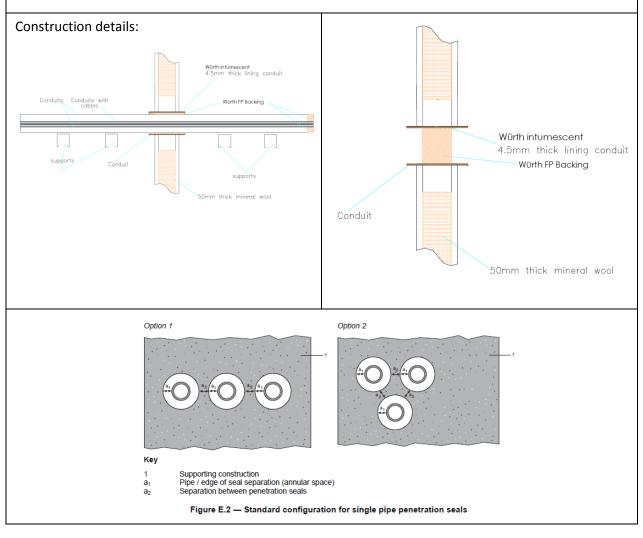
C. Johnson Staff Engineer Building and Life Safety Technologies

## **ANNEX A – Resistance to Fire Classification – Würth Cable Transit**

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 Würth Cable Transit, central within the wall. Spaces around cables and conduits within the device are sealed with 50 mm deep Würth FP Backing installed centrally. Min. Separation between seals (a2) = 30 mm. Min. Separation between seals (a2) = 30 mm, min. Separation between transit and suporting construction (a1) = 0 mm.



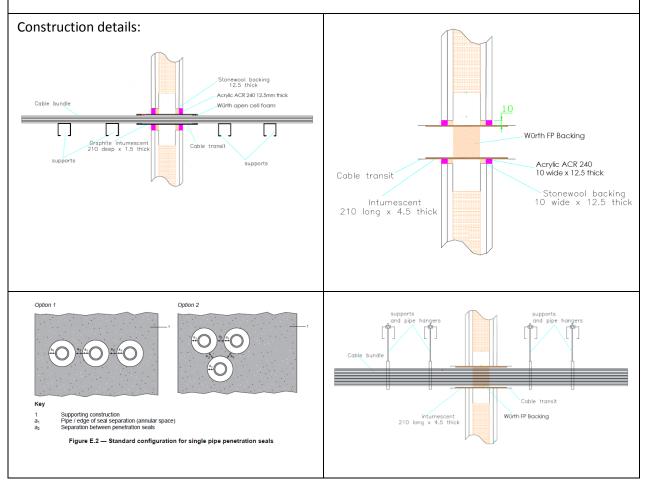
## A.1.1.1

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

### 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 Würth Cable Transit, central within the wall. Spaces around cables and conduits within the device are sealed with 50 mm deep Würth FP Backing 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.



## A.2.1.1 – Würth Cable Transit friction fitted into wall

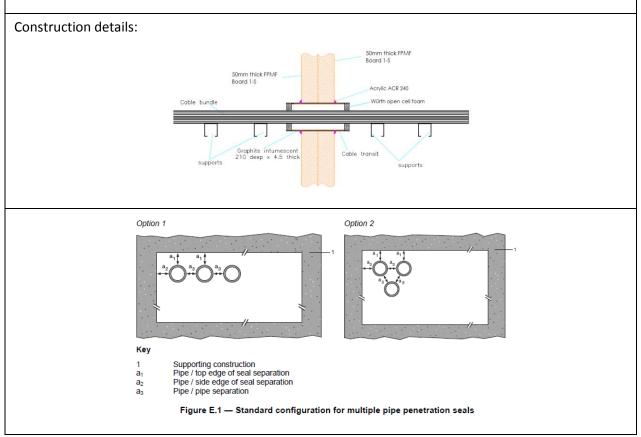
Services	Inlay size	Transit size	Classification
Up to 35 mm diameter bundle of cables up to 14 mm	1.5 mm thick by	40 mm Ø x 250 mm	
diameter	210 mm long	long	
Up to 50 mm diameter bundle of cables up to 14 mm	2.0 mm thick by	63 mm Ø x 250 mm	
diameter	210 mm long	long	EI 90
Up to 80 mm diameter bundle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

## A.2.1.2 – Würth Cable Transit in minimum 20 mm oversize aperture fitted with Acrylic ACR 240.

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

# A.2.2 Penetration seals, in 100 mm thick FPMF Board 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 Würth Cable Transit, central within the seal. Spaces around cables and conduits within the device are sealed with 50 mm deep Würth FP Backing installed centrally. Min. Separation between transits and between transits and the edges of the board seal (a1, a2, a3) = 30 mm, min.



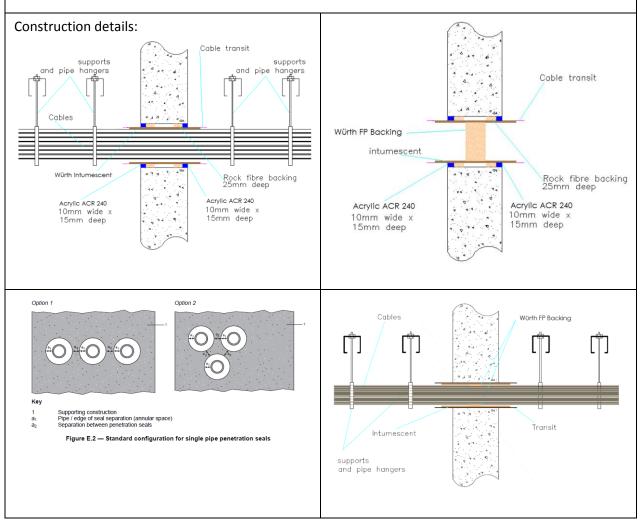
### A.2.2.1

Services	Inlay size	Transit size	Classification
Up to 35 mm diameter bundle of cables up to 14 mm	1.5 mm thick by	40 mm Ø x 250 mm	
diameter	210 mm long	long	
Up to 50 mm diameter bundle of cables up to 14 mm	2.0 mm thick by	63 mm Ø x 250 mm	
diameter	210 mm long	long	EI 90
Up to 80 mm diameter bundle of cables up to 14 mm	4.0 mm thick by	90 mm Ø x 250 mm	EI 90
diameter	210 mm long	long	-
Up to 100 mm diameter bundle of cables up to 14	4.5 mm thick by	110 mm Ø x 250	
mm diameter	210 mm long	mm long	
Empty filled at mid-depth with 50 mm deep plug of			E 90
Würth FP Backing			EI 60
Up to 32mm diameter plastic pipes in bundle, empty or with penetrating bundle of cables up to 14 mm diameter	All inlay sizes specified above	All transit sizes specified above	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 Würth Cable Transit, central within the wall. Spaces around cables and conduits within the device are sealed with 50 mm deep Würth FP Backing 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.



## A.3.1.1 – Würth Cable Transit friction fitted into wall

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

## A.3.1.2 – Würth Cable Transit in minimum 20 mm oversize aperture fitted with Acrylic ACR 240.

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

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

Penetration Seal: Cables and conduits fitted with 250 mm long Würth Cable Transit, central within the seal. Spaces around cables and conduits within the device are sealed with 50 mm deep Würth FP Backing installed centrally. Min. Separation between transits and between transits and the edges of the board seal (a1, a2, a3) = 30 mm, min. Construction details: supports supports and pipe Cables Cable transit intumescent Würth FP Backing Cable transit intumescent Option 1 Option 2 Key Supporting construction Pipe / top edge of seal separation Pipe / side edge of seal separation Pipe / pipe separation a a<sub>2</sub> a<sub>3</sub> Figure E.1 — Standard configuration for multiple pipe penetration seals

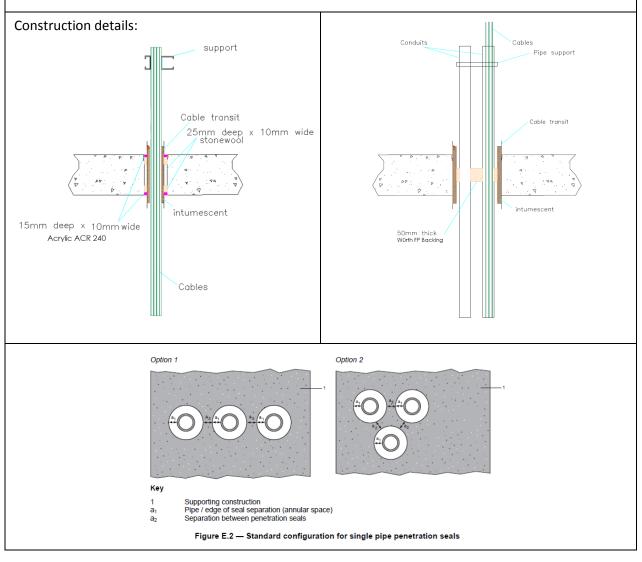
### A.3.2.1

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

### 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 Würth Cable Transit, central within the floor. Spaces around cables and conduits within the device are sealed with 50 mm deep Würth FP Backing 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.



## A.4.1.1 – Würth Cable Transit friction fitted into floor

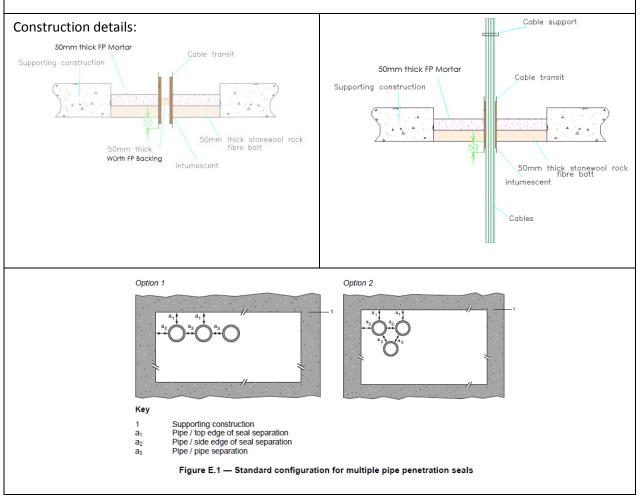
Services	Inlay size	Transit size	Classification
Up to 35 mm diameter bundle of cables up to 14 mm	1.5 mm thick by	40 mm Ø x 250 mm	
diameter	210 mm long	long	
Up to 50 mm diameter bundle of cables up to 14 mm	2.0 mm thick by	63 mm Ø x 250 mm	
diameter	210 mm long	long	EI 180
Up to 80 mm diameter bundle of cables up to 14 mm	4.0 mm thick by	90 mm Ø x 250 mm	EI 180
diameter	210 mm long	long	-
Up to 100 mm diameter bundle of cables up to 14	4.5 mm thick by	110 mm Ø x 250	
mm diameter	210 mm long	mm long	
Empty filled at mid-depth with 50 mm deep plug of			E 240
Würth FP Backing		All transit sizes	EI 180
Up to 32mm diameter plastic pipes in bundle, empty	All inlay sizes specified above	All transit sizes specified above	E 120 C/U
or with penetrating bundle of cables up to 14 mm	specified ubove		EI 60 C/U
diameter			2.000,0

## A.4.1.2 – Würth Cable Transit in minimum 20 mm oversize aperture fitted with Acrylic ACR 240.

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

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

**Penetration Seal:** Cables and conduits fitted with 250 mm long Würth Cable Transit, central within the seal. Spaces around cables and conduits within the device are sealed with 50 mm deep Würth FP Backing installed centrally. Min. Separation between transits and between transits and the edges of the board seal (a1, a2, a3) = 30 mm, min.



### A.4.2.1

Services	Inlay size	Transit size	Classification
Up to 35 mm diameter bundle of cables up to 14 mm	1.5 mm thick by	40 mm Ø x 250 mm	EI 240
diameter	210 mm long	long	EI 240
Up to 50 mm diameter bundle of cables up to 14 mm	2.0 mm thick by	63 mm Ø x 250 mm	EI 180
diameter	210 mm long	long	
Up to 80 mm diameter bundle of cables up to 14 mm	4.0 mm thick by	90 mm Ø x 250 mm	E 240
diameter	210 mm long	long	EI 120
Up to 100 mm diameter bundle of cables up to 14	4.5 mm thick by	110 mm Ø x 250	EI 120
mm diameter	210 mm long	mm long	
Empty filled at mid-depth with 50 mm deep plug of	All inlay sizes specified above	All transit sizes specified above	E 240
Würth FP Backing			EI 180
Up to 32mm diameter plastic pipes in bundle, empty			F 130 C/U
or with penetrating bundle of cables up to 14 mm			E 120 C/U
diameter			EI 60 C/U