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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



European Technical Assessment ETA-21/0075 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:

Würth Cable Transit

Product family to which the above construction product belongs:

Fire Stopping and Sealing Product:
• Penetration Seals

Manufacturer:

Würth International AG
Aspermontstrasse 1
CH- 7000 Chur
Switzerland

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:

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I. SPECIFIC PARTS OF THE EUROPEAN TECHNICAL ASSESSMENT

1 Technical description of the product

- 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 Polypropylene 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 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 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 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 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 Z₂: intended for use at internal conditions with humidity classes other than Z₁, 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: 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 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

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

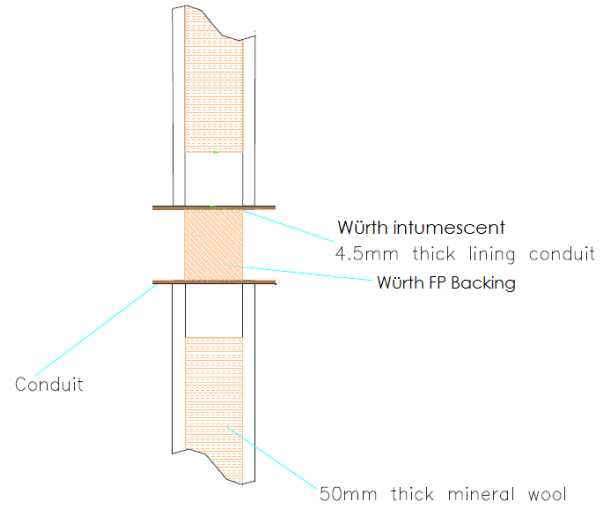
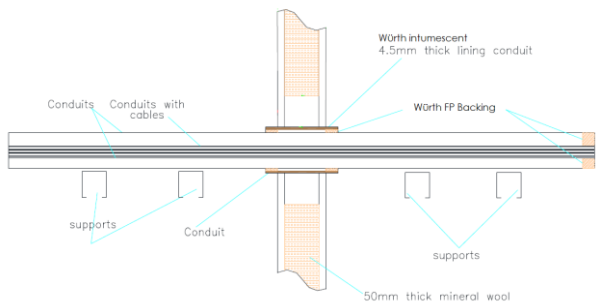
ANNEX A – Resistance to Fire Classification – Würth Cable Transit

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

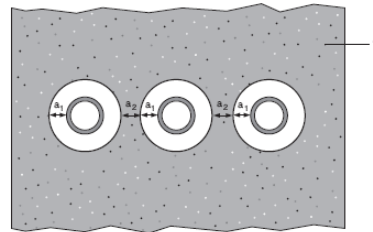
A.1.1 Penetration seals, in drywalls (min. 1 x 12.5 mm board per side) and concrete/masonry walls

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 (a_2) = 30 mm. Min. Separation between seals (a_2) = 30 mm, min. Separation between transit and supporting construction (a_1) = 0 mm.

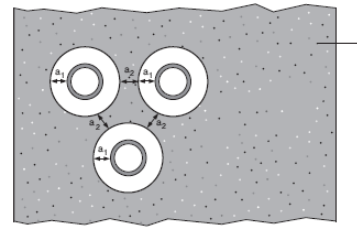
Construction details:



Option 1



Option 2



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

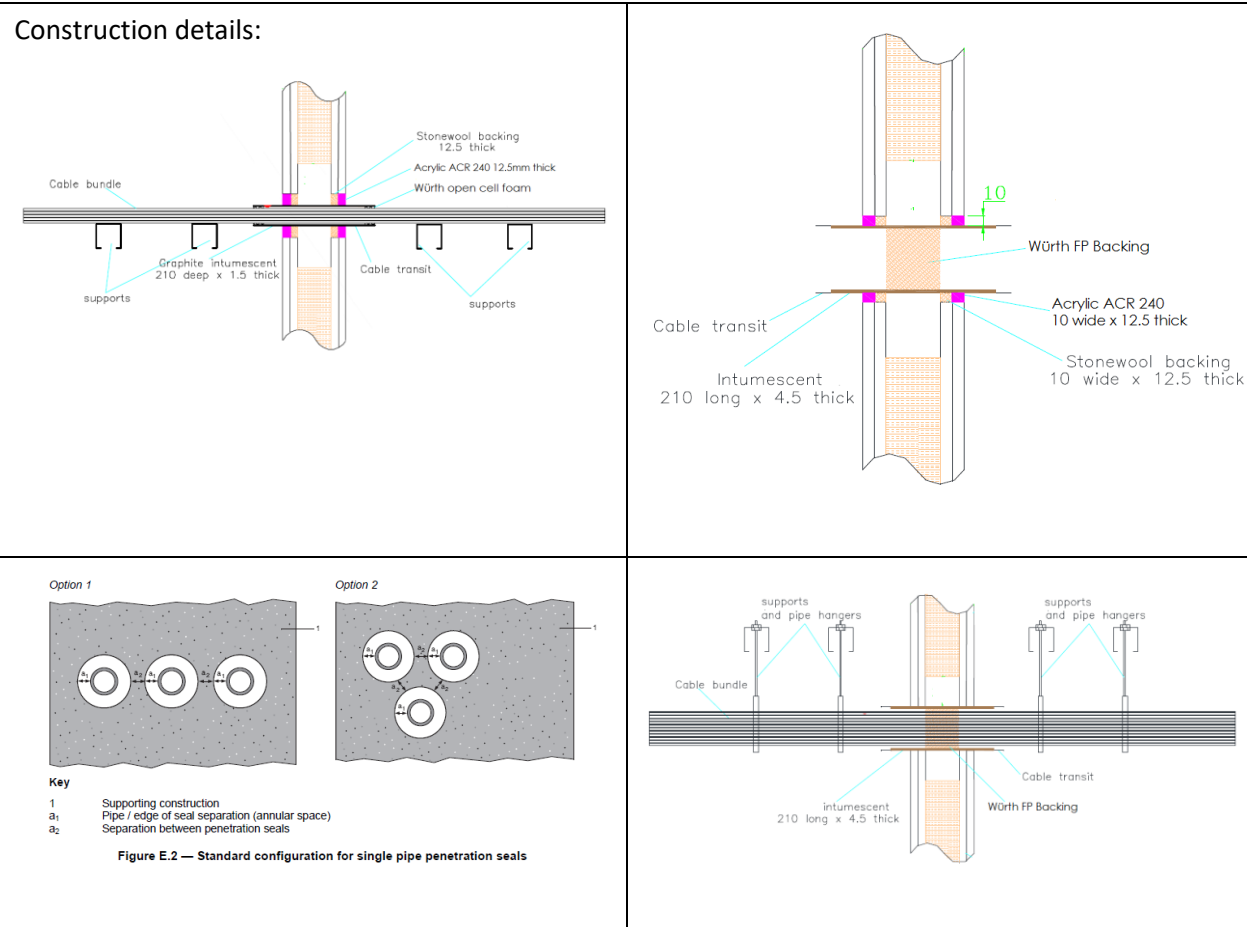
A.1.1.1

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 \varnothing 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 \varnothing 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 \varnothing 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 \varnothing x 150 mm long	
Empty filled at mid-depth with 50 mm deep plug of Würth FP Backing	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 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 (a_2) = 30 mm, min. Separation between transit and supporting construction (a_1) = 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 diameter	1.5 mm thick by 210 mm long	40 mm \varnothing 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 \varnothing 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 \varnothing 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 \varnothing x 250 mm long	
Empty filled at mid-depth with 50 mm deep plug of Würth FP Backing	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

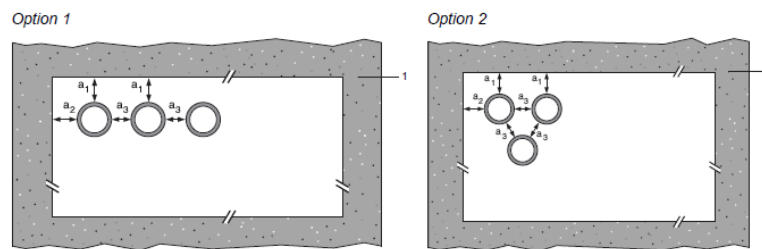
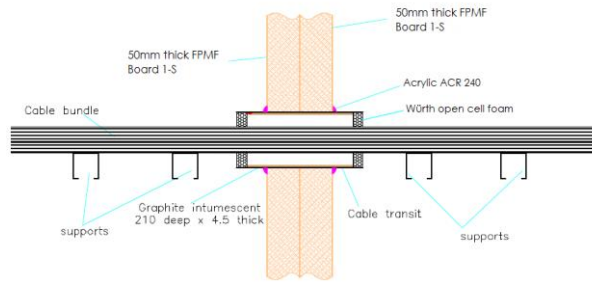
A.2.1.2 – Würth Cable Transit in minimum 20 mm oversize aperture fitted with Acrylic ACR 240.

Services	Inlay size	Transit size	Classification
Up to 35 mm diameter bundle of cables up to 14 mm diameter	1.5 mm thick by 210 mm long	40 mm \varnothing 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 \varnothing 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 \varnothing 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 \varnothing x 250 mm long	
Empty filled at mid-depth with 50 mm deep plug of Würth FP Backing	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 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 (a_1, a_2, a_3) = 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

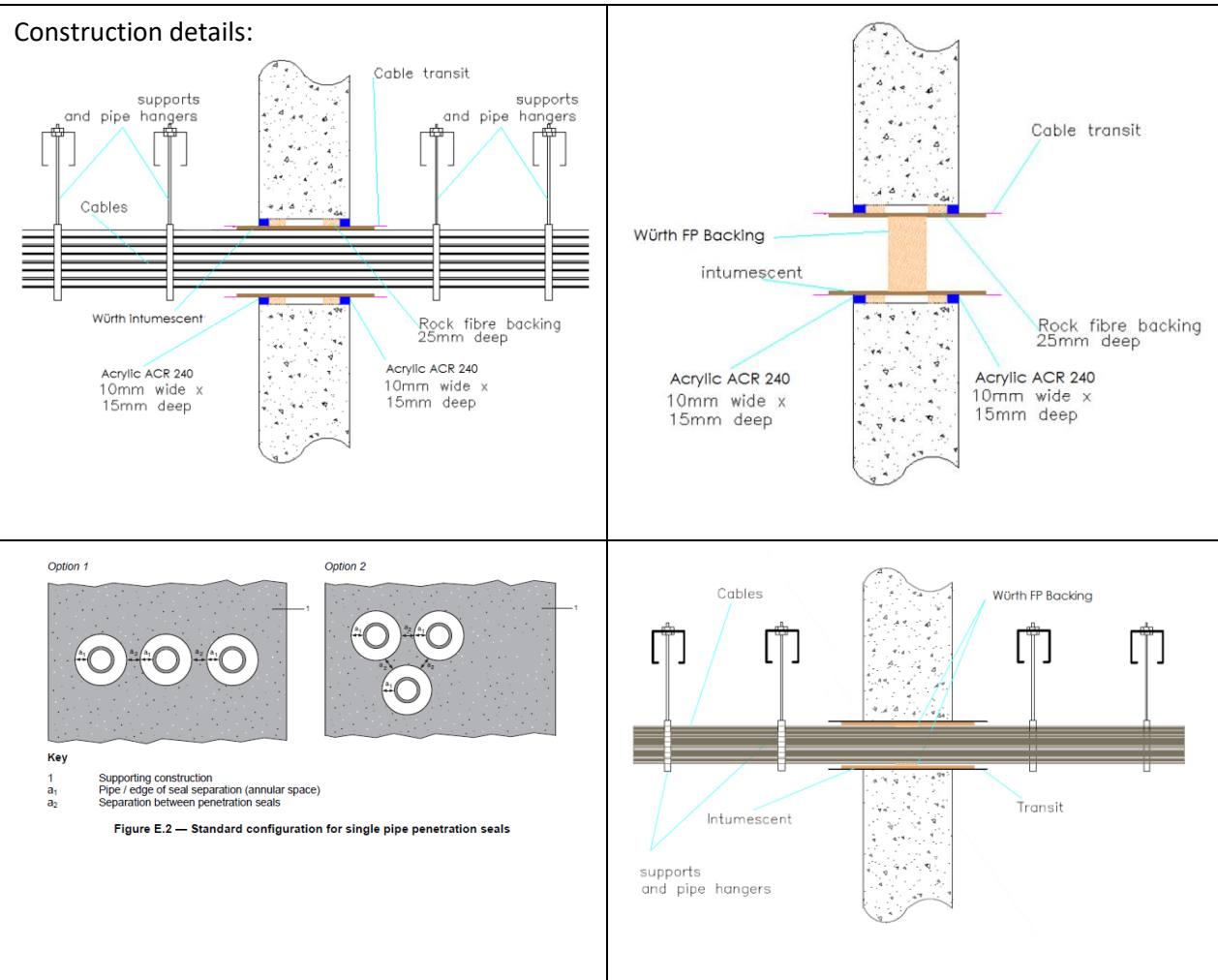
A.2.2.1

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 \varnothing 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 \varnothing 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 \varnothing 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 \varnothing x 250 mm long	
Empty filled at mid-depth with 50 mm deep plug of Würth FP Backing	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 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 (a_2) = 30 mm, min. Separation between transit and supporting construction (a_1) = 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

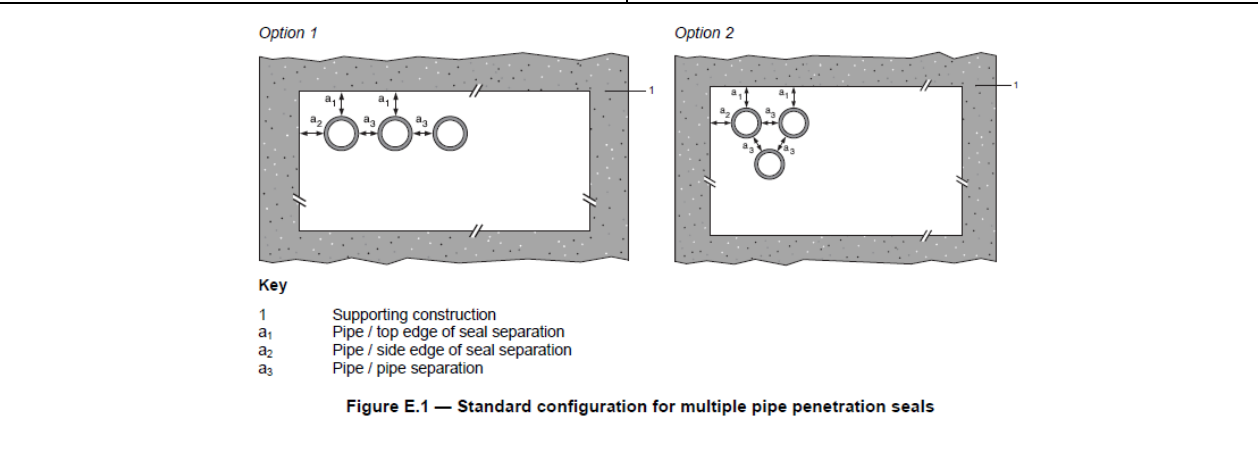
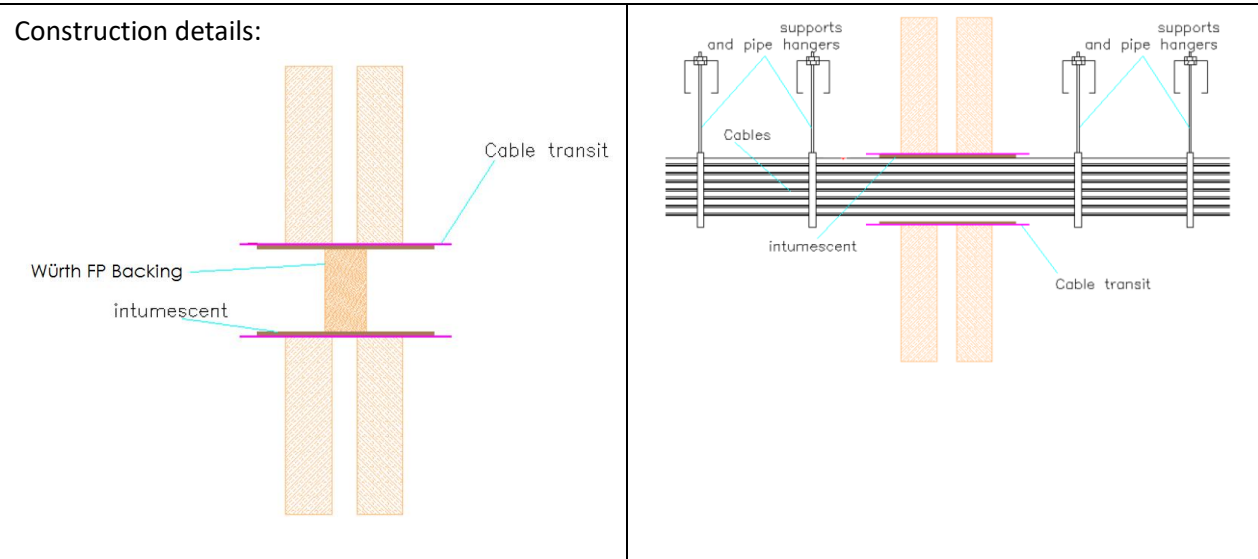
Services	Inlay size	Transit size	Classification
Up to 35 mm diameter bundle of cables up to 14 mm diameter	1.5 mm thick by 210 mm long	40 mm \varnothing x 250 mm long	EI 240
Up to 50 mm diameter bundle of cables up to 14 mm diameter	2.0 mm thick by 210 mm long	63 mm \varnothing x 250 mm long	
Up to 80 mm diameter bundle of cables up to 14 mm diameter	4.0 mm thick by 210 mm long	90 mm \varnothing 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 \varnothing x 250 mm long	E 240 EI 180
Empty filled at mid-depth with 50 mm deep plug of Würth FP Backing	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 – 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 diameter	1.5 mm thick by 210 mm long	40 mm \varnothing 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 \varnothing 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 \varnothing 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 \varnothing x 250 mm long	E 240 EI 180
Empty filled at mid-depth with 50 mm deep plug of Würth FP Backing	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 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 (a_1, a_2, a_3) = 30 mm, min.



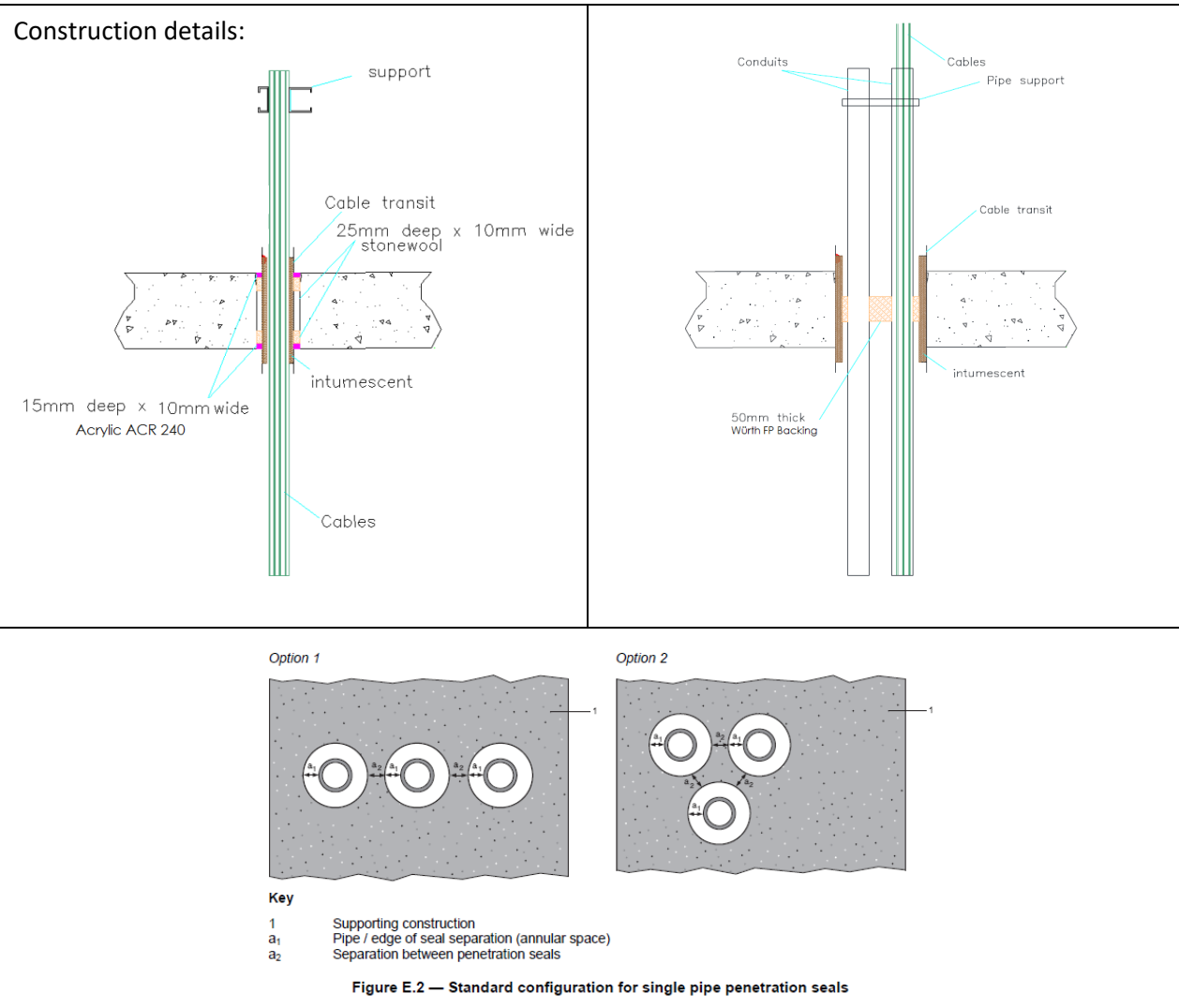
A.3.2.1

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 \varnothing 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 \varnothing 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 \varnothing 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 \varnothing x 250 mm long	E 240 EI 120
Empty filled at mid-depth with 50 mm deep plug of Würth FP Backing	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 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 (a_2) = 30 mm, min. Separation between transit and supporting construction (a_1) = 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

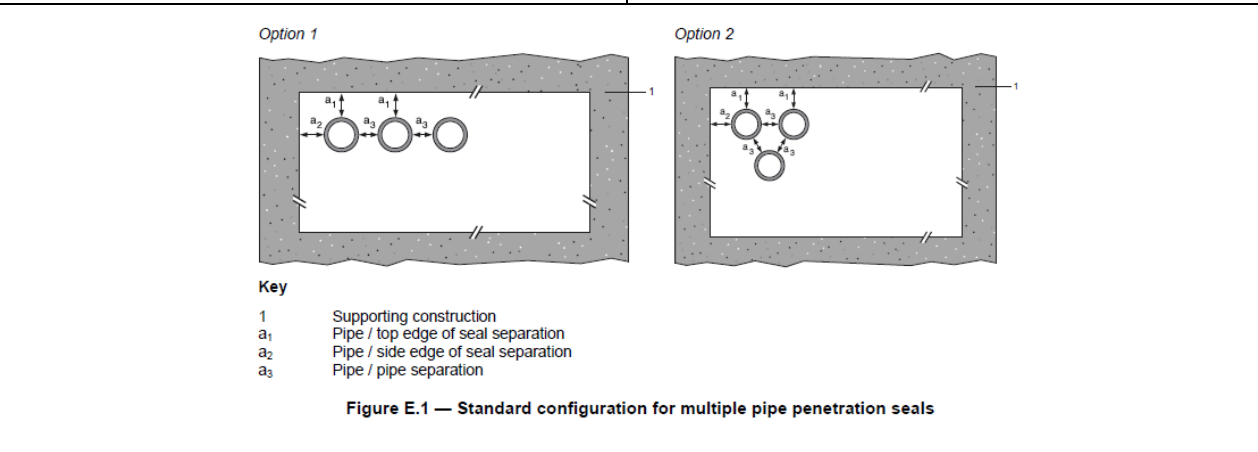
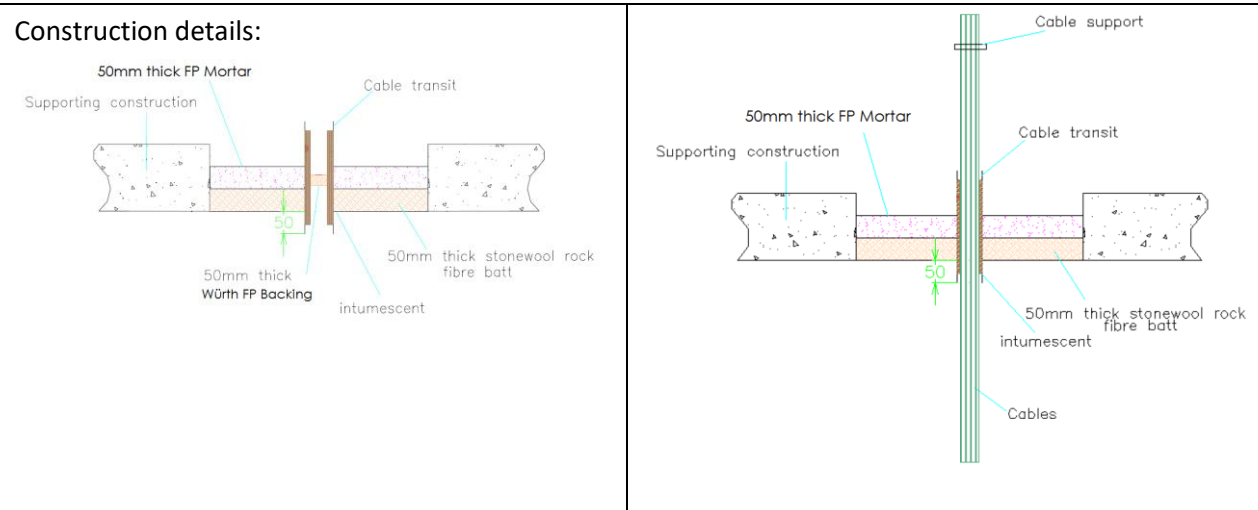
Services	Inlay size	Transit size	Classification
Up to 35 mm diameter bundle of cables up to 14 mm diameter	1.5 mm thick by 210 mm long	40 mm \varnothing x 250 mm long	EI 180
Up to 50 mm diameter bundle of cables up to 14 mm diameter	2.0 mm thick by 210 mm long	63 mm \varnothing x 250 mm long	
Up to 80 mm diameter bundle of cables up to 14 mm diameter	4.0 mm thick by 210 mm long	90 mm \varnothing 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 \varnothing x 250 mm long	
Empty filled at mid-depth with 50 mm deep plug of Würth FP Backing	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 – 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 diameter	1.5 mm thick by 210 mm long	40 mm \varnothing 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 \varnothing 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 \varnothing 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 \varnothing x 250 mm long	EI 180
Empty filled at mid-depth with 50 mm deep plug of Würth FP Backing	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 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 (a_1, a_2, a_3) = 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 diameter	1.5 mm thick by 210 mm long	40 mm \varnothing 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 \varnothing 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 \varnothing 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 \varnothing x 250 mm long	EI 120
Empty filled at mid-depth with 50 mm deep plug of Würth FP Backing	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