# FOR SMALL FIRESTOP PENETRATIONS

# ArmaProtect CT
## Firestop cable tube

Cable tube for fire seals in walls and floors

// Blank openings
// Cables and cable bundles
// Conduit and conduit bundles
// Combustible pipes
// HVAC split-line combinations
// Ideally for retrofitting applications

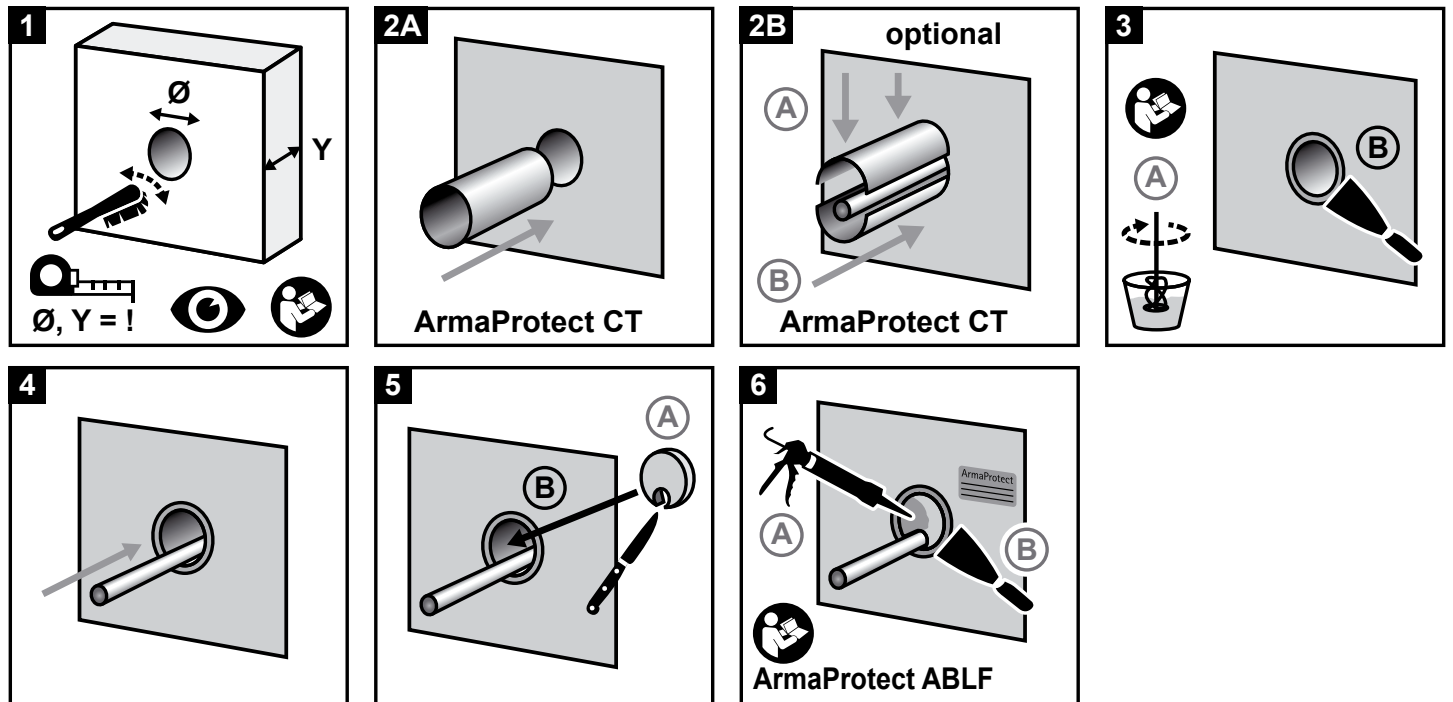www.armacell.com



armacell®
ArmaProtect™

# INSTRUCTIONS FOR USE

Ensure that surfaces are dry and free of dust and grease.

**1**

Ø

Y

Ø, Y = !

**2A**

ArmaProtect CT

**2B** optional

A

B

ArmaProtect CT

**3**

A

B

**4**

**5**

A

B

**6**

A

B

ArmaProtect ABLF

# MAIN APPLICATIONS ACC. ETA-22/0062



**in drywalls, solid walls and concrete floors[1]**
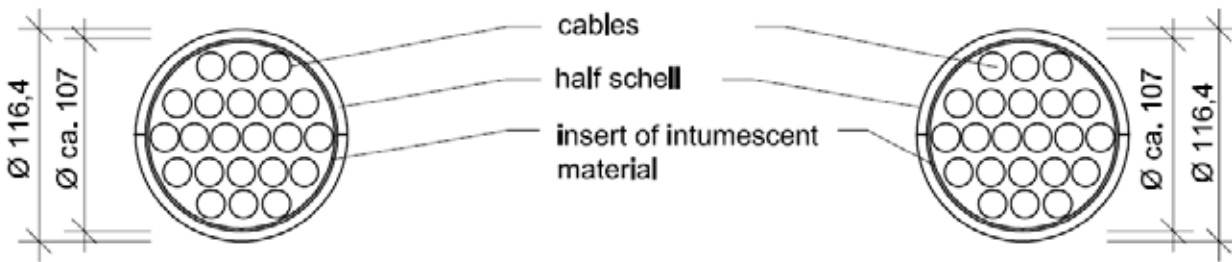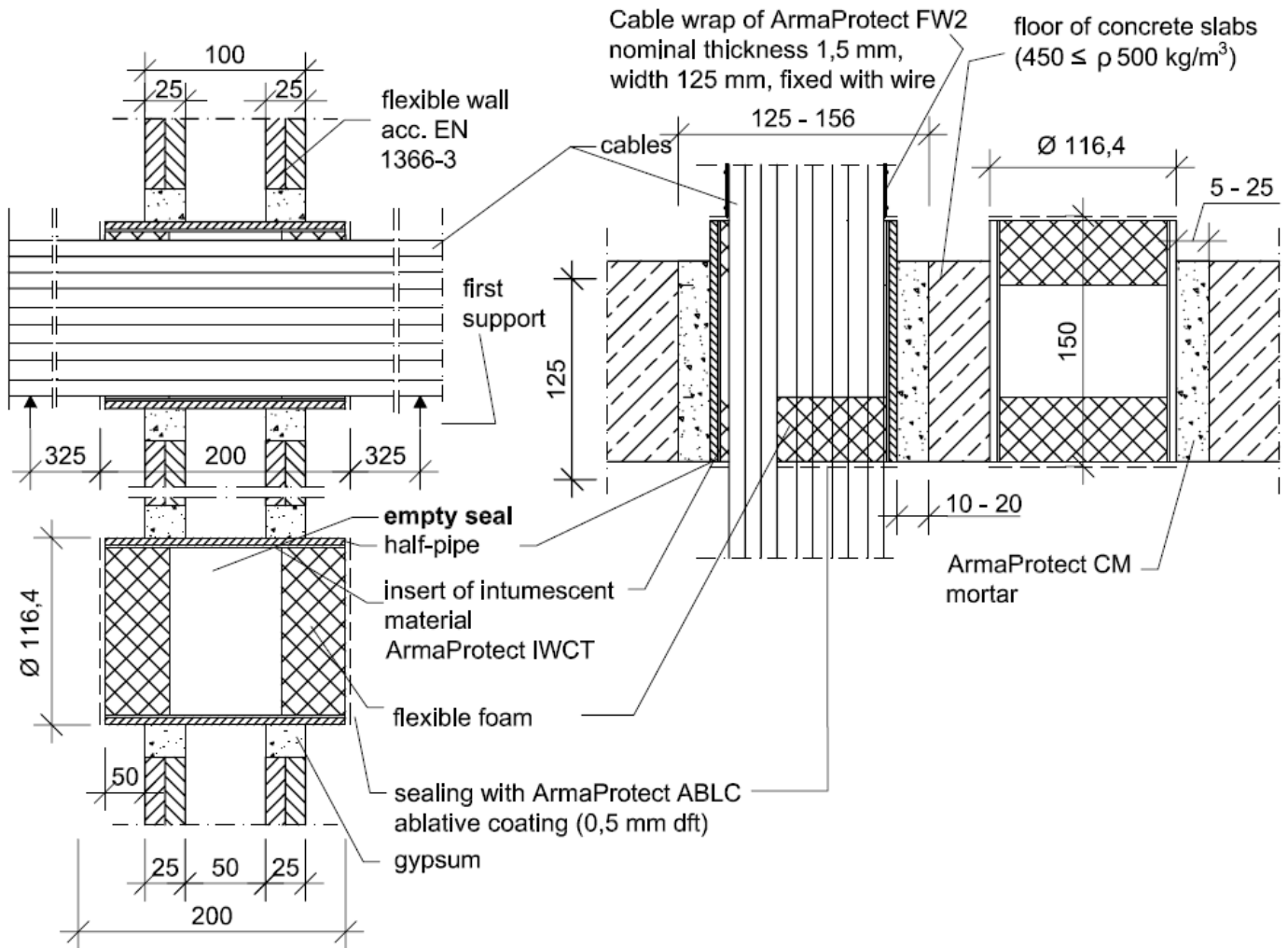
| | |
|---|---|
| Base material | Drywall, concrete wall, aerated concrete wall, masonry wall, concrete floor |
| Base material thickness | ≥ 100 mm (wall)<br>≥ 125 mm (floor) |
| Seal thickness | ≥ 150 mm |
| Penetrants<br>• Cables ≤ Ø 80 mm[1]<br>• Cable bundles ≤ Ø 107 mm (with cables ≤ Ø 21 mm)[1]<br>• Plastic conduits ≤ Ø 63 mm (with cables ≤ Ø 21 mm)[1]<br>• Plastic conduits bundles ≤ Ø 107 mm (conduits ≤ Ø 32 mm, with cables ≤ Ø 21 mm)[1]<br>• Wave guide cables ≤ Ø 28.5 mm[1]<br>• PE lines "speed pipes" (24 x ≤ Ø 7.0 mm, 7 x ≤ Ø 10.0 mm, 5 x ≤ Ø 12.0 mm)[1]<br>• Combustible pipes ≤ Ø 32 mm[1]<br>• HVAC split-line-combinations[1] | up to EI 120[1] |

[1] See ETA 22/0062 for further installation details.

## // Typical ETA approved systems[1]

**Wall application**

**Floor application**

Cable wrap of ArmaProtect FW2 nominal thickness 1,5 mm, width 125 mm, fixed with wire

floor of concrete slabs $(450 \leq \rho\ 500\ kg/m^3)$

100

25    25

flexible wall acc. EN 1366-3

cables

Ø 116,4

125 - 156

5 - 25

first support

125

325    200    325

150

Ø 116,4

**empty seal**

half-pipe

insert of intumescent material ArmaProtect IWCT

10 - 20

ArmaProtect CM mortar

flexible foam

sealing with ArmaProtect ABLC ablative coating (0,5 mm dft)

50

25  50  25

200

gypsum

Ø 116,4

Ø ca. 107

cables

half schell

insert of intumescent material

Ø ca. 107

Ø 116,4

Configuration wall construction:
F-telecommunication cables, cablebundle Ø 100 mm
100% configuration of telecommunication cables
with PVC-insulation and copperwire
Type J-Y (St)Y 80 x 2 x 0,6 LG grey; Ø appr. 21 mm

Configuration floor construction:
F-telecommunication cables, cablebundle Ø 107 mm
100% configuration of telecommunication cables
20 x 2 x 0,6 mm
Type A2-Y (L) 2Y St III BD, insulation PE / PE

[1] See ETA 22/0062 for further installation details.

# UL APPROVED SYSTEMS

## // Typical UL approved systems[1]
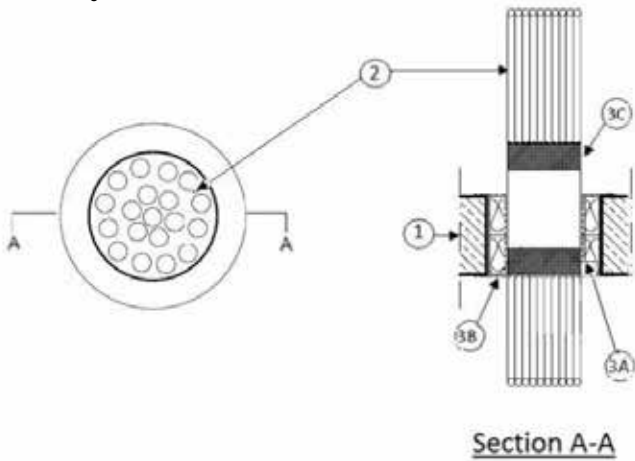
**Penetrants**

| | |
|---|---|
| • Cable bundles | ⩽ Ø 137 mm (cables Ø ⩽ 16.2 mm) |
| • PE-HD conduit bundles | ⩽ Ø 100 mm (conduits Ø ⩽ 32 mm) |
| • Steel pipes | ⩽ Ø 89 mm |
| • Clima split bundles | |

[1]See relevant UL system for further installation details.

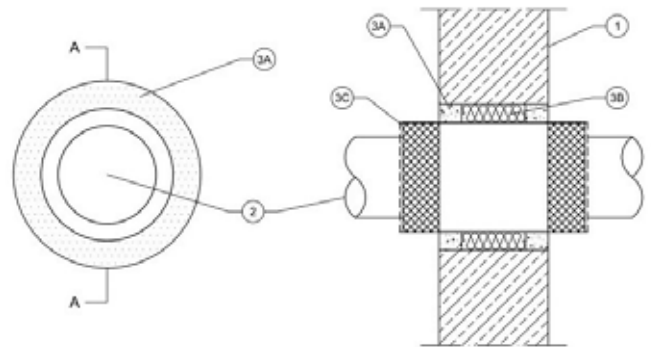## // Selected exemplary UL approved systems

**System No. F-A-3084 (cable bundle in floor opening)**

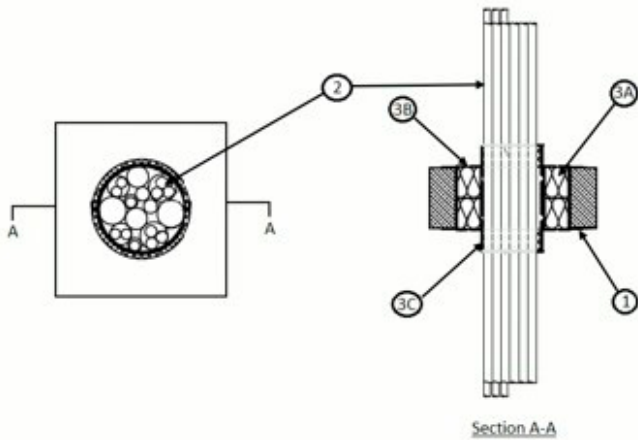ANSI/UL 1479 (ASTM E814)
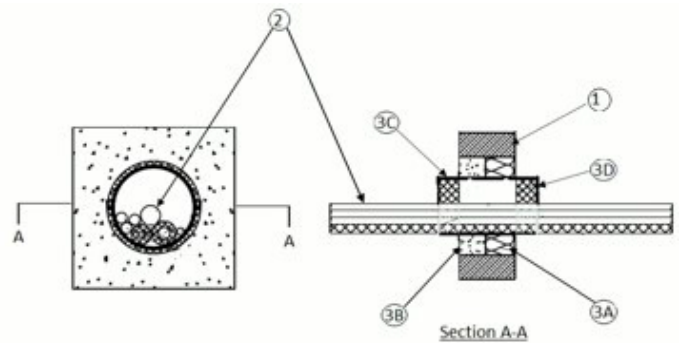• F rating - 3 hours
• T rating - 1/2 hour



Section A-A

**System No. C-AJ-2931 (PE-HD conduit bundle in floor opening)**

ANSI/UL 1479 (ASTM E814)
• F rating - 3 hours
• T rating - 3 hours



Section A-A

**System No. W-J-1335 (steel pipe in wall opening)**

ANSI/UL 1479 (ASTM E814)
• F rating - 2 hours
• T rating - 2 hours



**System No. W-J-8099 (clima split bundle in wall opening)**

ANSI/UL 1479 (ASTM E814)
• F rating - 3 hours
• T rating - 1½ hours



Section A-A

## TECHNICAL DATA – ARMAPROTECT CT FIRESTOP CABLE TUBE

| | |
|---|---|
| Brief description | ArmaProtect CT consists for two half shells with intumescent inlay and a soft foam plug. It is designed for use as small penetration seals in core drillings or as cast-in-solutions. |
| Material type | PVC cable tube half shells with intumescent fabric inlay. Closure are made of soft foam plugs. |
| Additional material information | Half-shells can be closed with a click lock. |
| Product colour range | Grey half shells with red inner lining. |
| Special features | Ideal as a retrofitting device. |
| Product range | Cable tubes including soft foam plugs are available in lengths of 150 mm (foam plug diameter: 60 mm, 90 mm and 116 mm), 200 mm (foam plug diameter: 90 mm and 116 mm) and 300 mm (foam plug diameter: 90 mm and 116 mm). |
| Applications | Firestop device for fire seals in walls and floors for blank openings, cables, cable bundles, combustible pipes and HVAC split-line combinations. |
| Installation | For professional use only. Refer to third party published listings, national approvals / assessments and Armacell's product literature for specific application details as well as before handling this product. |
| Declaration of Performance (DoP) | ArmaProtect CT |

**Approvals and compliance**

| | |
|---|---|
| Specification compliance | • ETA 22/0062 acc. EN 1366-3 • UL acc. UL 1979 (ASTM E814) |

ⁱ This is the footnote list relevant to the Approvals and compliance table.

| Property | Value/Assessment | Standard/Test method |
|---|---|---|
| **Temperature range** | | |
| Operating temperature | -40°C to 70°C (-40°F to 158°F) | |
| Application temperature | 5°C to 25°C (41°F to 77°F) | |
| Storage and transportation temperature | 5°C to 25°C (41°F to 77°F) | |
| **Fire performance** | | |
| Reaction to fire | Class E | EN 13501-1 |
| Resistance to fire | See Annex | |
| **Acoustic performance** | | |
| Sound reduction | 64 (-2;-6) dB<br>Dn, e; Dn, w (C; Ctr) | |
| **Health and environment** | | |
| Emission of dangerous substances | No dangerous substances. | ETA 22/0062 |
| **Other technical features** | | |
| Durability and serviceability | Use category type X. | EN 13501-1 |
| Safety information | Please refer to the safety data sheet available on our website. | |
| Shelf life | No shelf life. | |
| Storage | Store in a cool and dry place with an ambient temperature of 5 °C to 25 °C and protect from frost. | |

**Firestop cable tube and plug**

| Item | Description | Content |
|------|-------------|---------|
| PRO-CT-C060 | ArmaProtect CT Firestop Cable tube plug Ø 60 mm packed as a set of 10 soft plugs | 1 set(s) |
| PRO-CT-C090 | ArmaProtect CT Firestop Cable tube plug Ø 90 mm packed as a set of 10 soft plugs | 1 set(s) |
| PRO-CT-C116 | ArmaProtect CT Firestop Cable tube plug Ø 116 mm packed as a set of 10 soft plugs | 1 set(s) |
| PRO-CT-L090 | ArmaProtect CT Firestop Cable tube 300 mm / Ø 90 mm packed as 1 cable tube with 2 soft plugs | 12 set(s) |
| PRO-CT-L116 | ArmaProtect CT Firestop Cable tube 300 mm / Ø 116 mm packed as 1 cable tube with 2 soft plugs | 6 set(s) |
| PRO-CT-M090 | ArmaProtect CT Firestop Cable tube 200 mm / Ø 90 mm packed as 1 cable tube with 2 soft plugs | 18 set(s) |
| PRO-CT-M116 | ArmaProtect CT Firestop Cable tube 200 mm / Ø 116 mm packed as 1 cable tube with 2 soft plugs | 8 set(s) |
| PRO-CT-S060 | ArmaProtect CT Firestop Cable tube 150 mm / Ø 60 mm packed as 1 cable tube with 2 soft plugs | 30 set(s) |
| PRO-CT-S090 | ArmaProtect CT Firestop Cable tube 150 mm / Ø 90 mm packed as 1 cable tube with 2 soft plugs | 24 set(s) |
| PRO-CT-S116 | ArmaProtect CT Firestop Cable tube 150 mm / Ø 116 mm packed as 1 cable tube with 2 soft plugs | 12 set(s) |

**Firestop mortar. Colour: Grey**

| Item | Description | Content |
|------|-------------|---------|
| PRO-CM-20kg | ArmaProtect CM Firestop mortar | 20 kg |

**Firestop filler. Colour: White**

| Item | Description | Content |
|------|-------------|---------|
| PRO-ABLF-15kg | ArmaProtect ABLF Firestop filler mastic packed in a pail | 15 kg |
| PRO-ABLF-12.5kg | ArmaProtect ABLF Firestop filler mastic packed in a pail | 12.5 kg |
| PRO-ABLF-310ml | ArmaProtect ABLF Firestop filler mastic packed in a cartridge | 310 ml |

**Firestop wrap**

| Item | Description | Content |
|------|-------------|---------|
| PRO-FW2-10m | ArmaProtect FW2 Firestop wrap | 10 m |

**Firestop identification plate.**

| Item | Description | Content |
|------|-------------|---------|
| PRO-ID-SET | ArmaProtect ID identification plate set | 5 pieces |

# ABOUT ARMACELL

As the inventors of flexible foam for equipment insulation and a leading provider of engineered foams, Armacell develops innovative and safe thermal, acoustic and mechanical solutions that create sustainable value for its customers. Armacell's products significantly contribute to global energy efficiency making a difference around the world every day. With more than 3,000 employees and 24 production plants in 16 countries, the company operates two main businesses, Advanced Insulation and Engineered Foams. Armacell focuses on insulation materials for technical equipment, high-performance foams for high-tech and lightweight applications and next generation aerogel blanket technology.

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