

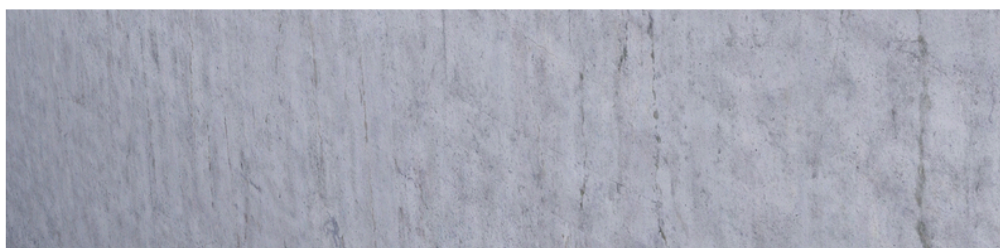
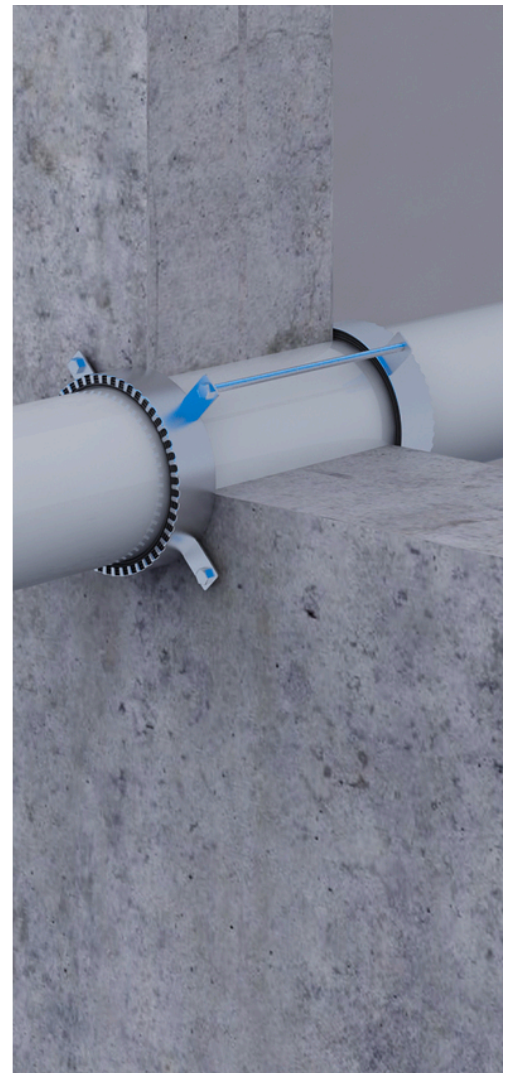


FOR FIRESTOP PIPES UP TO
MEDIUM DIAMETERS

ArmaProtect FC1

Firestop collar for fire seals in walls and
floors

// For sealing of combustible pipes without insulation up
to 160 mm diameter



 **armacell**[®]
MAKING A DIFFERENCE AROUND THE WORLD

INSTALL IT. ENSURE SAFETY.

ArmaProtect™

Passive fire protection (PFP) products and systems are designed to provide fire-safe circumstances in the event of a fire emergency. Often built as part of the building component, PFP measures are not visible to building users and hence often overlooked as a fire protection measure.



// Fire safety is top priority

The requirements for fire protection are increasing. Regulated by building codes, buildings are sub-divided in fire compartments. In the event of a fire, they keep fire and smoke contained in a limited area for a given amount of time. Fire ratings typically range from 30 to 120 or even up to 240 minutes

ArmaProtect firestop products reliably seal off penetrations in walls, floors or service shafts and keep escape routes free of smoke and toxic gases. This gives occupants valuable time to leave the building and rescue teams unhindered access for evacuation.

// One-stop-shop solution

Whether flexible walls, rigid wall or rigid floors with cable and pipe penetrations – Armacell offers specifiers and installers compliant solutions for almost all firestop penetrations.

The range includes intumescent firestop wraps, firestop collars, coated firestop boards, intumescent firestop sealants and mortars.

The ArmaProtect portfolio is an ideal addition to ArmaFlex Protect, Armacell's unique firestop solution which combines high fire resistance, condensation control and thermal insulation in a single product.

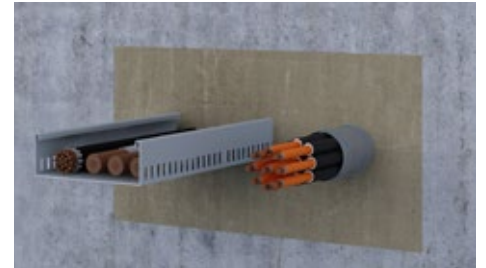


**SOLUTIONS
WITH EN TESTING
(ETA)**

The firestop portfolio from Armacell

Firestop penetration seals with cables, conduits, combustible and non-combustible pipes for residential, commercial and industrial building.

- ✓ Specifiable, reliable and flexible – **for each firestop application in residential, commercial and industrial buildings**
- ✓ Cost efficient solution – **the ideal choice for specifiers**
- ✓ Easy to install and maintain – **perfectly designed for the need of installers**
- ✓ Easy to inspect – **compliant solutions to fulfill the expectations of firestop inspectors**
- ✓ Firestop solutions for cable, pipe and mixed penetrations – **globally tested with European Technical Assessments and tested UL systems**
- ✓ Full approval range from small to large openings – **covering customer's requirement on the job sites**



ArmaProtect EXPS
Firestop sealant



ArmaProtect FW2 & FW3
Firestop wrap



ArmaProtect FC1 & FC2
Firestop collar



ArmaProtect CB
Coated firestop board
(includes **ArmaProtect ABLC**
Firestop coating and
ArmaProtect ABLF
Firestop filler mastic)



ArmaProtect CM
Firestop mortar



ArmaProtect CT
Firestop cable tube



ArmaProtect EFC1 & EFC2
Endless firestop collar

TECHNICAL DATA - ARMAPROTECT FC1

| | |
|----------------------|--|
| Brief description | ArmaProtect FC1 is a solid metal sleeve equipped with several layers of intumescent material to maintain the fire resistance performance of fire penetrations in walls and floors. |
| Material type | Galvanised sheet steel housing with flexible intumescent strip. |
| Product colour range | Housing: silver grey, Intumescent material: anthracite |
| Special features | Easy visual inspection. |
| Product range | 50 mm to 160 mm diameter. |
| Applications | Firestop collar for sealing combustible pipes without insulation. |
| 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. |

Approvals and compliance

| | |
|--------------------------|--|
| Specification compliance | <ul style="list-style-type: none"> ETA-21/1024 acc. EN 1366-3 |
|--------------------------|--|

| Property | Value / Assessment | Standard / Test method |
|--|---|------------------------|
| Operating temperature | | |
| Operating temperature | -40°C to 70°C (40°F to 158°F) | |
| Processing Temperature | | |
| Processing temperature | 5°C to 25°C (41°F to 77°F) | |
| Fire Performance and Approvals | | |
| Reaction to fire | Housing: Class A1 Inlay: Class E | EN 13501-1 |
| Use category | Type Y1: intended for use at temperatures below 0°C with exposure to UV but no exposure to rain | EOTA TR 024 |
| Passive fire protection | | |
| Fire resistance of elements of construction ¹ | Drywall, concrete wall, aerated concrete wall, masonry wall: up to EI 120 Concrete floors: up to EI 240 | EN 13501-2 |
| Physical attributes | | |
| Thickness | 2 mm ± 0,2mm (sheets) | EOTA TR 024 |
| Density | Inlay: 1.02 - 1.42 g/cm ³ (thickness 2 mm) | EOTA TR 024 |
| Mechanical properties | | |
| Expansion pressure | Inlay: > 0.6 N/mm ² | EOTA TR 024 |
| Weight loss on heating | Inlay: 52 - 62% (at 550°C, 30 minutes) | EOTA TR 024 |
| Expansion ratio | Inlay: 12 - 22.5 times | EOTA TR 024 |
| Health and environment | | |
| Health aspects | Please refer to the safety data sheet available on our website. | |
| Emission of dangerous substances | No dangerous substances. | |
| Other technical features | | |
| Storage | Store / Transport in a cool and dry place with an ambient temperature of 5 °C to 25 °C (41°F to 77°F) and protect from frost. | |

¹ See ETA 21/1024 for further installation details.

All data and technical information are based on results achieved under the specific conditions defined according to the testing standards referenced. Despite taking every precaution to ensure that said data and technical information are up to date, Armacell does not make any representation or warranty, express or implied, as to the accuracy, content or completeness of said data and technical information. Armacell also does not assume any liability towards any person resulting from the use of said data or technical information. Armacell reserves the right to revoke, modify or amend this document at any moment. It is the customer's responsibility to verify if the product is suitable for the intended application. The responsibility for professional and correct installation and compliance with relevant building regulations lies with the customer. This document does not constitute nor is part of a legal offer to sell or to contract.

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ABOUT ARMACELL

As the inventor of flexible foam for equipment insulation and a leading provider of engineered foams, Armacell develops innovative and safe thermal 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 3,300 employees and 25 production plants in 19 countries, the company operates two main businesses, Advanced Insulation and Engineered Foams. Armacell focuses on insulation materials for technical equipment, high-performance foams for acoustic and lightweight applications, recycled PET products, next-generation aerogel technology and passive fire protection systems.

For more information, please visit:
www.armacell.com


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