



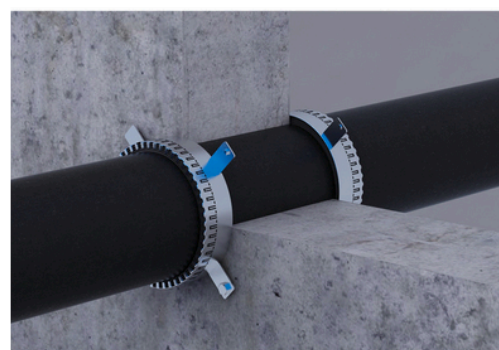
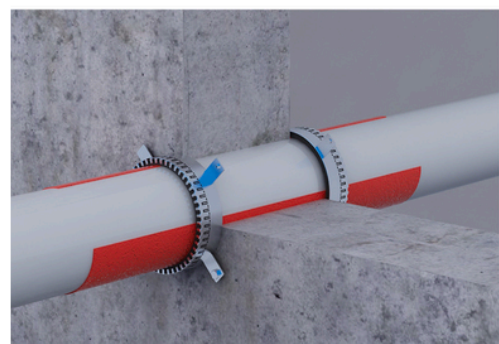
ENDLESS FIRESTOP COLLAR

# ArmaProtect EFC1 and EFC2

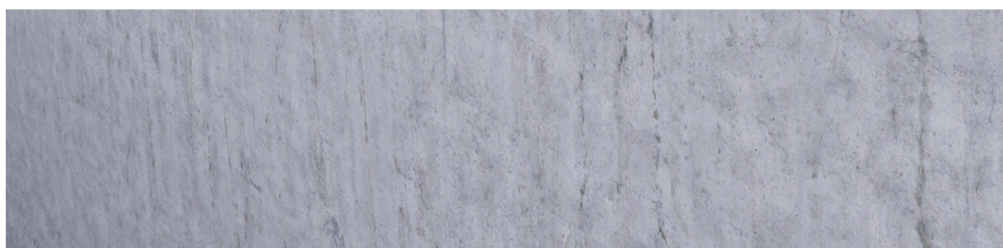
Flexible solution for firestop pipe penetrations

Endless firestop collar for fire seals in walls and floors

[www.armacell.eu](http://www.armacell.eu)



 **armacell**<sup>®</sup>  
ArmaProtect<sup>®</sup>



## TECHNICAL DATA - ARMAPROTECT EFC1 AND EFC2

Brief description	ArmaProtect EFC1 and EFC2 are endless firestop collars as solution for covering various pipe diameters and design variants.
Material type	Stainless steel strap with self-adhesive flexible intumescent strip based on blowing graphite technology.
Product colour range	Stainless steel (strap) and anthracite (intumescent strip)
Special features	Easy visual inspection.
Product range	Self-adhesive firestop wrap: 10 m x 40 mm x 2 mm, stainless steel strap: 3 m (including 18 hooks).
Applications	Endless Firestop collar for fire seals in walls and floors for combustible pipes (with and without insulation) and non-combustible pipes (with combustible 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.

Property	Value / Assessment	Standard / Test method
<b>Operating temperature</b>		
Operating temperature	-40°C to 70°C (40°F to 158°F)	
<b>Processing temperature</b>		
Processing temperature	5°C to 25°C (41°F to 77°F)	
<b>Thermal conductivity</b>		
Declared thermal conductivity	$\theta_m$	0 °C
	$\lambda_d \leq [W/(m \cdot K)]$	0.403
<b>Fire Performance and Approvals</b>		
Reaction to fire	Class A1 (stainless steel collar) / Class E (intumescent strip)	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
<b>Passive fire protection</b>		
Fire resistance of elements of construction	up to EI 240	EN 13501-2
<b>Physical attributes</b>		
Density	1200 ± 10 kg/m <sup>3</sup>	
<b>Mechanical properties</b>		
Start of reaction / Volume expansion	> 190 °C / 18 to 34 times	
Expansion pressure	> 0.8 N/mm <sup>2</sup>	
<b>Other technical features</b>		
Shelf life	No shelf life.	
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.	

**Firestop collar**

Item	Description	Primary content [pieces]
PRO-EFC1-3M	ArmaProtect EFC1 Endless Firestop collar comprised of 10m firestop wrap and 3m stainless steel strap	1 piece
PRO-EFC2-3M	ArmaProtect EFC2 Endless Firestop collar comprised of 10m firestop wrap and 3m stainless steel strap	1 piece

**Accessories**

Item	Description	Primary content [pieces]
PRO-ID-SET	ArmaProtect ID identification plate set (5 pcs.)	14 set

# OUR CUSTOMERS EXPECT THE BEST. WE WORK HARD TO GO BEYOND THAT AND EXCEED THEIR EXPECTATIONS.

At Armacell we want to create a unique customer experience. We understand the challenges of today's construction industry and support you in the successful delivery of your projects. From planning to delivery, our 360° service supports you throughout the entire process.



## **SERVICE AND TECHNICAL INFORMATION AVAILABLE 24/7**

At Armacell, we do everything we can to ensure your project runs smoothly. This is why the information about the Armacell services you benefit from is available 24/7 from Armacell.com website as well as from our planning tools (BIM, specification documents, ArmaWin, as well as our sustainable building policy)

## **DEDICATED LOCAL CONTACTS**

We aim to create open lines of communication with our customers. From on-site trainings and webinars by our Armacell technical experts advising on project planning and safety instructions to our local dedicated sales and customer services, your local Armacell dedicated team is working in partnership with you to achieve more together.

## **DIGITAL INFORMATION FLOWS**

From order to delivery, we also provide you with digital information flows such as EDI and other well-known data formats that are widely used in the construction sector worldwide.





## OUR STANDARD LOGISTICS SERVICES INCLUDE

- // Material ordered will be shipped from our facilities within 48 hours after order confirmation
- // Full truck loads and full pallets (not mixed – 1 SKU per pallet)
- // List prices in this document are based on Ex Works
- // Container loading with standard goods
- // Customs clearance (including documentation) for standard deliveries outside EU
- // Dangerous goods process for road freight

## WE GO BEYOND STANDARD SERVICES AND ALSO PROPOSE YOU ADDITIONAL SERVICES\*

### OPIMISED PACKAGING

- Edge protection
- Strapping
- Doubled stretching
- Reinforced cardboard with extra layer
- Additional warning tape

### LABELLING

- Extra label for transport instructions

### EXTRA DELIVERY SERVICES

- Just in time delivery
- Delivery with lifting platform for partial or complete load
- Express and direct shipments
- Booking a delivery time slot via your EDP system
- Forklift truck for unloading at construction site
- Air and sea freight deliveries
- Dangerous goods shipment process for air and sea freight



To mitigate cost increases and reduce waste generation, we also propose a pallet return service\* by which pallets can be handed at Armacell collection points.

\* Please contact your local Customer Service Centre to see which of these services apply to your country.

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

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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 3200 employees and 27 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 high-tech and lightweight applications and next generation aerogel blanket technology.



For more information, please visit:  
[www.armacell.com](http://www.armacell.com)