



- Single solution for hot and cold applications
- Quick and easy installation
- Suitable for ceilings, rigid walls and lightweight walls
- Can be used in combination with all Armaflex Products.

## Technical Data - Armaflex Protect

Brief description	Flexible fire seal and insulation for non-combustible and combustible pipes through fire-resistant walls and ceilings (EI 30 to EI 120).
Material type	Elastomeric foam based on synthetic rubber.
Colour	black
Applications	Insulation and fire protection barrier for drinking water hot / cold, heating and refrigeration non combustible pipes up to 326 mm diameter and combustible pipes up to 75 mm.
Special Features	Acc. to ETA 3.2.1.2. Detailed information on the fields of application (building elements, services, limits in size) and description of construction of the penetration seal are available in the Armaflex Protect installation instructions
Remarks	Declaration of Performance is available in accordance with Article 7(3) of Regulation (EU) No 305/2011 on our homepage: <a href="http://www.armacell.com/DoP">www.armacell.com/DoP</a>

Property	Value/Assessment		Test <sup>*1</sup>	Super-vision <sup>*2</sup>	Special Remark
Temperature Range					
Temperature Range	max. service temperature	+85 °C	EU 5925		Tested acc. to EN 14706, EN 14707 and EN 14304
	min. service temperature	-50 °C			
Thermal Conductivity					
Thermal Conductivity	$\vartheta_m$ 0 °C		EU 5925	○	Tested according to EN 12667 EN ISO 8497
	$\lambda$	≤ 0,056 W/(m · K)			
Water vapour diffusion resistance					
Water vapour diffusion resistance	$\mu$	≥ 7.000	EU 5925	○	Tested acc. to EN 12086 and EN 13469
Fire performance					
Reaction to fire	product range		EU 5925	○	Classified acc. to EN 13501-1 Tested acc. to EN ISO 11925-2
	tubes	E <sub>L</sub>			
	sheets	E			
Practical Fire Behaviour	Self-extinguishing, does not drip, does not spread flames				
Fire resistance of structural element	EI 30 - EI 120		EU 4384	○/●	European Technical Approval ETA-11/0454
Other technical features					
UV resistance <sup>1</sup>	Protection against UV-radiation is necessary.				
Storage & Shelf life	Cartons shall be stored horizontally.				Can be stored in dry, clean rooms at normal relative humidity (50 % - 70 %) and ambient temperature (0 °C - 35 °C). Minimum temperature for transport -50 °C under condition of frost-free storage before installation.

1. If Armaflex is applied under UV-radiation the material must be protected within 3 days with a covering.

\*1 Further documents such as test certificates, approvals and the like can be requested using the registration number given.

\*2 ●: Official supervision by independent institutes and /or test authorities

○: Own in-factory quality monitoring

Armaflex Protect – ideal for condensation control on refrigeration and coolant piping

Pipe outer diameter	Line temperature / Ambient temperature			
	+6 °C / 23 °C	0 °C / 23 °C	-5 °C / 23 °C	-10 °C / 23 °C
≥ 10 mm ≤ 323,9 mm	Relative humidity ≤ 80 %	Relative humidity ≤ 75 %	Relative humidity ≤ 70 %	Relative humidity ≤ 65 %

## Armaflex Protect tubes



Length 1,0 m

Pipe max. Outside-Ø [mm]	Insulation thickness [mm]	Code	m/carton
6	16,0	PRO-AX-16X006	34
8	16,0	PRO-AX-16X008	30
10	19,0	PRO-AX-19X010	18
12	19,0	PRO-AX-19X012	17
15	19,0	PRO-AX-19X015	16
16	20,0	PRO-AX-20X016	14
18	20,0	PRO-AX-20X018	13
20	20,0	PRO-AX-20X020	12
22	20,0	PRO-AX-20X022	12
25	20,0	PRO-AX-20X025	11
28	25,0	PRO-AX-25X028	9
32	25,0	PRO-AX-25X032	8
35	25,0	PRO-AX-25X035	8
40	25,0	PRO-AX-25X040	6
42	25,0	PRO-AX-25X042	6
48	25,0	PRO-AX-25X048	5
50	25,0	PRO-AX-25X050	5
54	25,0	PRO-AX-25X054	5
60	25,0	PRO-AX-25X060	4
64	25,0	PRO-AX-25X063	4
76	25,0	PRO-AX-25X076	4
89	25,0	PRO-AX-25X089	4

## Armaflex Protect sheets endless



Code	Roll length [m]	Width [m]	Insulation thickness [mm]	m <sup>2</sup> /carton	Rolls/carton
PRO-AX-13MM/E	6	0.5	13,0	2 x 3	2

### Remark

For sealing purposes at least two layers of sheet material must be installed; DIN 4140 requires that, in addition to being glued, they are secured by wire.

### Reaction to fire

Euroclass E