armacell®

ARMAFLEX PROTECT
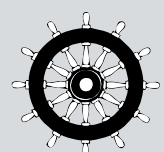
INSTALL IT. ENSURE SAFETY.

Armaflex Protect
STOP
The reliable fire-stop barrier

Armaflex® Protect

- Unique, all-in-one, passive fire protection solution based on ArmaFlex technology.
- 3 in 1 solution (passive fire protection - condensation control - thermal insulation)
- Easy to install

- European Technical Assessment (ETA) 11/0454

ETA

BUREAU VERITAS

TYPE APPROVED PRODUCT
DNV·GL
DNVGL.COM/AF

Technical Data - ArmaFlex Protect

Brief description	Flexible fire seal and insulation for metal and composite pipes through fire-resistant walls and floors (up to EI 120).
Material type	Flexible elastomeric foam based on synthetic rubber
Colour	black
Applications	Insulation and fire protection barrier for drinking water hot / cold, heating and refrigeration metal pipes up to 326 mm diameter and composite pipes up to 75 mm.
Special Features	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 ETA-11/0454.
Safety and Environment	Please refer to latest product Safety Datasheet (SDS)
Assembly	Please refer to "ArmaFlex Application Manual" and "ArmaProtect System Comprehensive Compendium". For information on marine applications, please consult your local Armacell contact or get in touch with our Customer service.
Remarks	Declaration of Performance is available in accordance with Article 7(3) of Regulation (EU) No 305/2011 on our homepage: www.armacell.com/DoP"

Property	Value/Assessment				Test[*1]	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	ϑ_m		0	°C	EU 5925	Tested according to EN 12667 EN ISO 8497
	λ	≤	0,056	W/(m · K)		
Water vapour diffusion resistance						
Water vapour diffusion resistance	μ	≥	7.000		EU 5925	Tested acc. to EN 12086 and EN 13469
Fire performance						
Other Fire Class	Marine applications		A-60 class decks and bulkheads		EU 5616 EU 5883 EU 5870 D 5555	Tested according to 2010 FTP-Code part3, IMO A.754 (18) Classified acc. to MED 96/98/EC MODULE D
Practical Fire Behaviour	Self-extinguishing, does not drip, does not spread flames					
Fire resistance of structural element			up to EI 120 (ETA-11/0454)		EU 4384	EN 1366-3, EN 13501-2
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.					
Use category	Type Y2 - intended for use at temperatures below 0 °C, but with no exposure to rain nor UV				EU 4384	EOTA TR 024

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

ArmaFlex Protect - ideal zur Tauwasserverhinderung an Kälte- und Kühlwasseranlagen

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 %

All data and technical information are based on results achieved under typical application conditions. Recipients of this information should, in their own interest and responsibility, promptly clarify with us to determine whether or not the data and information apply to the intended application area.

Installation instructions are available in our Armaflex installation manual. Please consult our Customer Service Center before insulating stainless steels. Adhesive Armaflex 520 must be used to guarantee proper installation. For some refrigerants, the discharge temperature may exceed +110 °C; please consult our Customer Service Center for further information. For outside use, Armaflex should be protected within 3 days, e.g. with Armafinish 99 Paint or Arma-Chek covering.

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]	m²/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.

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