

## Declaration of Performance No. 0543-CPR-2013-001

<b>Unique identification code of the product-type:</b>	<b>AF/ArmaFlex</b>
<b>Intended use/es:</b>	Thermal insulation of building equipment and industrial installations (ThiBEll)
<b>Manufacturer:</b>	Armacell GmbH Robert-Bosch-Str. 10 D-48153 Münster
<b>System/s of AVCP:</b>	1 and 3
<b>Harmonised standard:</b>	EN 14304:2009+A1:2013
<b>Notified body/ies:</b>	NB 0919
<b>Declared performance/s:</b>	

Essential characteristics	Performance		
Thermal resistance / Thermal conductivity	Tubes	$d_N = 7 - 25 \text{ mm (AF1 - AF4)}$	$\lambda_{0^\circ\text{C}} \leq 0,033 \text{ W}/(\text{m} \cdot \text{K})$ $\lambda(\vartheta_m) = (33 + 0,1 \cdot \vartheta_m + 0,0008 \cdot \vartheta_m^2) / 1000$
	Tape, Sheets	$d_N = 3 - 32 \text{ mm}$	
	Tubes	$d_N = 25 - 45 \text{ mm (AF5 - AF6)}$	$\lambda_{0^\circ\text{C}} \leq 0,036 \text{ W}/(\text{m} \cdot \text{K})$ $\lambda(\vartheta_m) = (36 + 0,1 \cdot \vartheta_m + 0,0008 \cdot \vartheta_m^2) / 1000$
	Tubes	$d_N = 55 \text{ mm}$	
	Sheets	$d_N = 36 - 50 \text{ mm}$	
Reaction to fire	Tubes	$d_N = 7 - 45 \text{ mm (AF1 - AF6)}$	$B_L - s3, d0$
	Tape, Sheets	$d_N = 3 - 50 \text{ mm}$	$B - s3, d0$
	Tubes	$d_N = 55 \text{ mm}$	$E_L$
Fire resistance	EI 15 - EI 90 <sup>5)</sup>		
Durability of thermal resistance against ageing/ degradation	Dimensional stability <sup>1)</sup> Minimum service temperature ST(-)50 (= -50 °C)		
Durability of thermal resistance against high temperatures	Maximum service temperature ST(+)110 (=110°C)		
Durability of reaction to fire against ageing/ degradation	Durability characteristics <sup>2)</sup>		
Durability of reaction to fire against high temperature	Durability characteristics <sup>2)</sup>		
Water permeability	NPD <sup>4)</sup>		
Water vapour permeability/ Water vapour diffusion resistance	Tubes	$d_N = 7 - 25 \text{ mm (AF1 - AF4)}$	$\mu 10000 (\mu \geq 10000)$
	Tape, Sheets	$d_N = 3 - 32 \text{ mm}$	
	Tubes	$d_N = 25 - 45 \text{ mm (AF5 - AF6)}$	$\mu 7000 (\mu \geq 7000)$
	Sheets	$d_N = 36 - 50 \text{ mm}$	

# declaration

	Tubes	$d_N = 55 \text{ mm}$	$\mu 4000 (\mu \geq 4000)$
Rate of release of corrosive substances	Trace quantities of water-soluble chloride ions CL300 ( $\leq 300 \text{ ppm}$ )		
Acoustic absorption index	NPD <sup>4)</sup>		
Release of dangerous substances to indoor environment	NPD <sup>3) 4)</sup>		
<sup>1)</sup> The thermal conductivity of flexible elastomeric foam does not change with time <sup>2)</sup> The fire performance of flexible elastomeric foam products does not change with time. <sup>3)</sup> European test methods are under development. <sup>4)</sup> No Performance Determined (NPD) <sup>5)</sup> Details: classification report K-3579/821/14 MPA BS			

This declaration of performance is made available in accordance with Article 7(3) of Regulation (EU) No 305/2011 on our homepage:  
<http://www.armacell.com/DoP>

The performance of the product identified above is in conformity with the set of declared performance/s. This declaration of performance is issued, in accordance with Regulation (EU) No 305/2011, under the sole responsibility of the manufacturer identified above.

Signed for and on behalf of the manufacturer by:

**Georg Eleftheriadis, Technical Marketing Manager EMEA**  
**Münster, 19.08.2020**



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