

Declaration of Performance

DOP-No. 0543-CPR-2020-101

1. Unique identification code of the product-type:	AF/ArmaFlex Evo	
2. Intended use/es:	Thermal insulation of building equipment and industrial installations (ThiBELL)	
3. Manufacturer:	Armacell GmbH Robert-Bosch-Str. 10 48161 Münster	☎ 0049 7603 0 ☎ 0048 71 317 5115 info.de@armacell.com www.armacell.com
4. Where applicable, name and contact address of the authorised representative whose mandate covers the tasks specified in Article 12(2):	not applicable	
5. System or systems of assessment and verification of constancy of performance of the construction product as set out in Annex V:	AVCP 1 and 3	
6. Harmonised standard:	EN 14304:2009+A1:2013	
Notified certification body ¹	Notified certification body No. 0919 (GSH) performed, carried out the determination of the product type, the initial inspection of the manufacturing plant and the factory production control and the continuous surveillance, assessment and evaluation of factory production control and issued the certificate of constancy of performance for reaction to fire.	
Notified testing laboratory ²	The notified test laboratory No. 0767 (MPA Dresden GmbH) has issued the test reports for Reaction to fire, No. 1234 (Efectis) Reaction to fire, No. 1004 (IBP) Thermal conductivity, No. 0751 (FIW) Thermal conductivity.	
7. Declared performance/s:	FEF-EN14304-ST(+)-110-ST(-)-50-MU10000 FEF-EN14304-ST(+)-110-ST(-)-50-MU7000	

¹ Güteschutzgemeinschaft Hartschaum e.V. (GSH), Schildenstraße 24, 29221 Celle, Germany

² MPA Dresden GmbH, Fuchsmühlenweg 6F, 09599 Freiberg, Germany
 Efectis Nederland BV, Brandpuntlaan Zuid 16, NL 2665 NZ Bleiswijk, The Netherlands
 Fraunhofer-Institut für Bauphysik IBP, Nobelstraße 12, 70569 Stuttgart, Germany
 Forschungsinstitut für Wärmeschutz e. V. München FIW München, Lochhamer Schlag 4, 82166 Gräfelfing, Germany

Essential characteristics		Performance			
Thermal resistance	Thermal conductivity	Tubes	$d_D = 7 - 25 \text{ mm}$	$\lambda_{0^\circ\text{C}} \leq 0,033 \text{ W}/(\text{m} \cdot \text{K})$ $\lambda(\vartheta_m) = (33 + 0,1 \cdot \vartheta_m + 0,0008 \cdot \vartheta^2)/1000$	
		Tubes	$d_D = 25 \text{ mm} - 45 \text{ mm}$	$\lambda_{0^\circ\text{C}} \leq 0,036 \text{ W}/(\text{m} \cdot \text{K})$	
		Sheets	$d_D = 3 - 32 \text{ mm}$	$\lambda(\vartheta_m) = (36 + 0,1 \cdot \vartheta_m + 0,0008 \cdot \vartheta^2)/1000$	
		Sheets	$d_D = 36 - 50 \text{ mm}$	$\lambda_{0^\circ\text{C}} \leq 0,037 \text{ W}/(\text{m} \cdot \text{K})$ $\lambda(\vartheta_m) = (37 + 0,1 \cdot \vartheta_m + 0,0008 \cdot \vartheta^2)/1000$	
	Dimensions and Tolerances	Tubes	$d_D = 7 - 45 \text{ mm}; D_i, D = 6 - 168 \text{ mm}$ Dimensions and tolerances met		
		Sheets	$d_D = 3 - 50 \text{ mm}$ Dimensions and tolerances met		
Reaction to fire		Tubes	$d_D = 7 - 45 \text{ mm}$	$B_1 - s_2, d_0$	
Fire resistance		Sheets	$d_D = 3 \text{ mm} - 50 \text{ mm}$	$B - s_2, d_0$	
Fire resistance		EI 15 – EI 90 ^e			
Durability of thermal resistance against ageing/ degradation ^a		Maximum service temperature ST(+) $110 (=110^\circ\text{C})$			
		Minimum service temperature ST(-) $50 (=50^\circ\text{C})$			
		Dimensions and tolerances met Durability characteristics met			
Durability of thermal resistance against high temperatures ^a		Maximum service temperature ST(+) $110 (=110^\circ\text{C})$ Durability characteristics met			
Durability of reaction to fire against ageing/ degradation ^b		Durability characteristics met			
Durability of reaction to fire against high temperature ^b		Durability characteristics met			
Compressive strength ^c		---			
Water permeability		NPD			
Water vapour permeability		Tubes	$d_D = 7 - 25 \text{ mm}$	MU 10000 ($\mu \geq 10000$)	
		Tubes	$d_D = 25 \text{ mm} - 45 \text{ mm}$	MU 7000 ($\mu \geq 7000$)	
		Sheets	$d_D = 3 \text{ mm} - 50 \text{ mm}$		
Rate of release of corrosive substances		Trace quantities of water-soluble chloride ions CL300 ($\leq 300 \text{ ppm}$)			
Acoustic absorption index		NPD			
Release of dangerous substances ^d		NPD			
Continuous glowing combustion ^d		NPD			
NPD No Performance Determined; ϑ_m Mean Temperature ^a The thermal conductivity of flexible elastomeric foam does not change with time ^b The fire performance of flexible elastomeric foam products does not change with time. ^c Compressive strength is not applicable for FEF products. ^d European test methods are under development. ^e Details: classification report K-3579/821/14 MPA BS					

The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 8. This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4.

Signed for and on behalf of the manufacturer by:

Dr.-Ing. Elke Rieß, Manager Central Technical Marketing EMEA

Münster, 03.12.2024



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