




Declaration of Performance

DOP-No. 0551-CPR-2013-024

1. Unique identification code of the product-type:	ArmaFlex Duct, ArmaFlex Duct AL, ArmaFlex Duct Plus, ArmaFlex Duct Plus AL		
2. Intended use/es:	Thermal insulation of building equipment and industrial installations (ThiBEII)		
3. Manufacturer:	<table border="1" style="width: 100%;"> <tr> <td data-bbox="788 663 1086 824">Armacell Poland Sp.zo.o. Ul. Targowa 2 PL-55-300 Środa Śląska</td> <td data-bbox="1091 663 1455 824">  Phone +48 71 317 5025 informacja.pl@armacell.com www.armacell.com </td> </tr> </table>	Armacell Poland Sp.zo.o. Ul. Targowa 2 PL-55-300 Środa Śląska	 Phone +48 71 317 5025 informacja.pl@armacell.com www.armacell.com
Armacell Poland Sp.zo.o. Ul. Targowa 2 PL-55-300 Środa Śląska	 Phone +48 71 317 5025 informacja.pl@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: Notified certification body ¹ Notified testing laboratory ²	<p>EN 14304:2009+A1:2013</p> <p>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.</p> <p>The notified test laboratory No. 0402 (SP Technical Research Institute of Sweden) has issued the test reports for Reaction to fire, No. 0761 (MPA BS) Reaction to fire, No. 1486 (COBR) Thermal conductivity & Reaction to fire.</p>		
7. Declared performance/s:	FEF-EN14304-ST(+)-110-ST(-)-50-MU7000		

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

² SP Technical Research Institute of Sweden, Box 857, 501 15 BORAS, Sweden
 Materialprüfanstalt für das Bauwesen (MPA BS), Beethovenstrasse 52, 38106 Braunschweig, Germany
 COBR, Centralny Ośrodek Badawczo-Rozwojowy, Przemysłu Izolacji Budowlanej, Al. W. Korfantego 193 A, 40-157 Katowice

Essential characteristics		Performance		
Thermal resistance	Thermal conductivity	ArmaFlex Duct, ArmaFlex Duct AL Sheets	$d_D = 6 - 25 \text{ mm}$	$\lambda_{0^\circ\text{C}} \leq 0,036 \text{ W}/(\text{m} \cdot \text{K})$ $\lambda(\vartheta_m) = (36 + 0,1 \cdot \vartheta_m + 0,0008 \cdot \vartheta^2)/1000$
		ArmaFlex Duct Plus Sheets	$d_D = 9 - 32 \text{ mm}$	
		ArmaFlex Duct Plus AL Sheets	$d_D = 9 - 40 \text{ mm}$	
		ArmaFlex Duct, ArmaFlex Duct AL Sheets	$d_D = 32 \text{ mm} - 40 \text{ mm}$	$\lambda_{0^\circ\text{C}} \leq 0,038 \text{ W}/(\text{m} \cdot \text{K})$ $\lambda(\vartheta_m) = (38 + 0,1 \cdot \vartheta_m + 0,0008 \cdot \vartheta^2)/1000$
	Dimensions and Tolerances	ArmaFlex Duct, ArmaFlex Duct AL, ArmaFlex Duct Plus, ArmaFlex Duct Plus AL Sheets	$d_D = 6 - 40 \text{ mm}$ Dimensions and tolerances met	
Reaction to fire		ArmaFlex Duct Plus Sheets	$d_D = 9 - 32 \text{ mm}$	B – s3, d0
		ArmaFlex Duct Plus AL Sheets	$d_D = 9 - 40 \text{ mm}$	
		ArmaFlex Duct Sheets	$d_D = 6 - 40 \text{ mm}$	D – s3, d0
		ArmaFlex Duct AL Sheets	$d_D = 6 - 40 \text{ mm}$	E
Durability of thermal resistance against ageing/ degradation ^a	Maximum service temperature ST(+) ¹¹⁰ (=110°C)			
	Minimum service temperature ST(-) ⁵⁰ (= -50°C)			
	Dimensions and tolerances met			
	Durability characteristics met			
Durability of thermal resistance against high temperatures ^a	Maximum service temperature ST(+) ¹¹⁰ (= 110 °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	ArmaFlex Duct, ArmaFlex Duct AL Sheets	$d_D = 6 \text{ mm} - 40 \text{ mm}$	MU 7000 ($\mu \geq 7000$)	
	ArmaFlex Duct Plus Sheets	$d_D = 9 \text{ mm} - 32 \text{ mm}$		
	ArmaFlex Duct Plus AL Sheets	$d_D = 9 \text{ mm} - 40 \text{ mm}$		
Rate of release of corrosive substances	NPD			
Acoustic absorption index	NPD			

Release of dangerous substances^d	NPD
Continuous glowing combustion^d	NPD
<p>NPD No Performance Determined; ϑ_m Mean Temperature</p> <p>^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.</p>	

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
Sroda Slaska, 22.10.2024



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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>.