	<b>National declaration of performance</b>	<b>Number: 42/KAN-DWU/21E</b>
	KAN-therm System multilayer pipes in insulation	Page 1 z 2

1. Name and trade name of building product:

System KAN-therm PE-RT/Al/PE-RT multilayer pipes in insulation [Ø16-32 mm]

2. Designation type of building product:

Multi Universal multilayer pipes of the KAN-therm System in insulation

3. Intended use or uses:

For use in indoor installations of cold and hot utility water, drinking water, central radiator heating in accordance with the "Designer's and contractor's guide" issued by KAN Sp. z o.o., the catalog of the KAN-therm System and the guidelines of the KAN Technical Department.

4. Name and address of the producer and place of manufacture:

KAN Sp. z o.o.  
Zdrojowa 51 PL-16-001 Białystok-Kleosin  
Poland  
[www.kan-therm.com](http://www.kan-therm.com) e-mail: [kan@kan-therm.com](mailto:kan@kan-therm.com)

5. Name and address of the authorized representative, if appointed: Not applicable

6. National system used for assessment and verification of performance constancy:

System 3 and 4

7. National technical specification:

7a. Polish product standard:

PN-EN ISO 21003-2:2009/A1:2011- Multilayer piping systems for hot and cold water installations inside buildings - Part 2: Pipes.


PN-EN 14313:2016-04 – Thermal insulation products for building equipment and industrial installations - Factory made polyethylene foam (PEF) products – Specification.

Name of the accredited laboratory and accreditation number:

SKZ - Testing GmbH, akredytacja DAkkS nr D-PL-19033-01-00  
IMA Materialforschung und Anwendungstechnik GmbH, akredytation DAkkS nr D-PL-13119-02-00

7b. National technical assessment:

Not applicable.

	<b>National declaration of performance</b>	<b>Number: 42/KAN-DWU/21E</b>
	KAN-therm System multilayer pipes in insulation	Page 2 z 2

8. Declared performance:

Essential characteristics of the construction product for the intended use or uses	Declared performance	Remarks
Geometric features	Accordance to KAN specifications and PN-EN ISO 21003-2:2009 Insulation thickness 6 mm	
Pipe structure	Type M acc. PN-EN ISO 21003-2:2009	
Mechanical properties	Design internal pressure resistance determined in accordance with PN-EN ISO 21003-2:2009/A1:2011 Class 1-5/10 bar	
Physical properties	Thermal stability acc. to PN-EN ISO 21003-2:2009, p. 10.2 class 1 – $T_{rob}=60\text{ °C} / T_{max}=80\text{ °C}$ class 2 – $T_{rob}=70\text{ °C} / T_{max}=80\text{ °C}$ class 4 – $T_{rob}=60\text{ °C} / T_{max}=70\text{ °C}$ class 5 – $T_{rob}=80\text{ °C} / T_{max}=90\text{ °C}$ Thermal conductivity of the insulation $\lambda$ at avg. $40\text{ °C}$ - $0.036\text{W} / \text{mK}$ Insulation absorption: method B - 1%	
Marking	Accordance to: PN-EN ISO 21003-2:2009/A1:2011	
Reaction to fire	Class E	
Impact on drinking water	Approved for contact with drinking water	Hygienic certificate PZH B-BK-60210-1265/19, PCA accreditation Nr AB 509

9. The performance of the product described above is in accordance with all of the declared performance characteristics mentioned in point 8. This national declaration of performance is issued in accordance with the Act of 16 April 2004 regarding construction products, under the sole responsibility of the manufacturer.

On behalf of manufacturer signed by:

Manager of the Quality Assurance Department

Kleosin – 09.06.2021  
(place – date of issue)

  
Janusz Żukowski  
(signature)