	<b>National declaration of performance</b>	<b>Number: 140/KAN-DWU/24E</b>
	System KAN-therm ultraPRESS PERTAL pipes	Page 1 z 2

1. Name and trade name of building product:

System KAN-therm ultraPRESS PERTAL pipes [Ø16-63 mm]

2. Designation type of building product:

System KAN-therm ultraPRESS PERTAL 5L PE-RT II/Al/PE-RT II

3. Intended use or uses:

For use in indoor installations of cold and hot utility water, drinking water, chilled water, compressed air, central radiator or underfloor heating and cooling installations using glycol water solutions 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 (System 1+ Croatia – Certifikat o stalnosti svojstwa 16/12-ZGP-226 rev.3)

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.

Name of the accredited laboratory and accreditation number:

Kiwa Nederland B.V., Accreditation Council RvA, accreditation L015

7b. National technical assessment:

Not applicable.

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8. Declared performance:

Essential characteristics of the construction product for the intended use or uses	Declared performance	Remarks
Geometric features	Dimensions in accordance with the KAN catalog and specifications, as well as printed on the pipe and label 14x2, 16x2, 20x2, 25x2,5, 26x3, 32x3, 40x3,5, 50x4; 63x4,5	
Pipe structure	Type M acc. PN-EN ISO 21003-2:2009	
Material: ultraPRESS PERTAL	PE-RT II/glue/Al/glue/PE-RT II	
Layers: 1. internal PE-RT II 2. Glue 3. Aluminum 4. Glue 5. Outer layer PE-RT II	Pressure transfer capacity (layers 1,2,3,4,5) Ability to block oxygen permeability (L 3) Ability to create interlayer adhesion (L 2,4) Ability to block (L 3) or significantly reduce the effects of UV and/or sunlight (L 1,2,4,5) Ability to mechanically protect all other layers (L 5) Ability to limit elongation (L 3) Ability to color the pipe (L 5)	
Mechanical properties	Design internal pressure resistance determined in accordance with PN-EN ISO 21003-2:2009+A1  Class 2,5/10 bar	
Physical properties	Thermal stability:  class 2 – $T_{rob}=70\text{ °C} / T_{max}=80\text{ °C}$ class 5 – $T_{rob}=80\text{ °C} / T_{max}=90\text{ °C}$	
Marking	Accordance to: PN-EN ISO 21003-2:2009	
Reaction to fire	Class E	
Impact on drinking water	Approved for contact with drinking water PZH B.BK.60110.0862.2022 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 – 05.06.2024  
(place – date of issue)

  
Janusz Żukowski  
(signature)