

## Product certificate K109661/01

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Replaces -

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### VIP (Vacuum Insulated Panel)

#### STATEMENT BY KIWA

With this product certificate, issued in accordance with the Kiwa Regulations for Certification, Kiwa declares that legitimate confidence exists that the products supplied by

### UPONOR GmbH

as specified in this product certificate and marked with the Kiwa®-mark in the manner as indicated in this product certificate may, on delivery, be relied upon to comply with Kiwa evaluation guideline BRL-K17401 part A "Flexible piping systems intended for transport of hot and cold drinking water" dated 16-04-2004 inclusive amendment sheet dated 08-01-2020.

Ron Scheepers  
Kiwa

*This product certificate is only valid in combination with a Kiwa certified plastics piping system.  
Advice: consult [www.kiwa.nl](http://www.kiwa.nl) in order to ensure that this certificate is still valid.*

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**Certification process  
consists of initial and  
regular assessment of:**

- quality system
- product

## VIP (Vacuum Insulated Panel)

## TECHNICAL SPECIFICATION

## Subject

VIP (Vacuum Insulated Panel)

## Product characteristics

The product complies to BRL K17401 Part A Flexible piping systems intended for transport of hot and cold drinking water.

## Specification

The VIP (Vacuum Insulated Panel) as mentioned in the table below belongs to this product certificate.

Declared thermal conduction coefficient $\lambda_D$ at different average temperatures	Average temperature [°C]	$\lambda_D$ [ W/(m.K) ] *
	40	0.0040
	50	0.0042

## Fitness for contact with drinking water

This product is not in direct contact with drinking water.


## MARKING

The products shall be marked with the Kiwa-mark.

The isolation material is part of a piping package. The piping package exists of:

- PE-X medium carrying pipes provided with an oxygen barrier layer (color: natural)
- VIP (Vacuum Insulated Panel)
- Dog bone from PE-X foam around the VIP (Vacuum Insulated Panel) (only for twin pipe system)
- PE-X insulation layer around the VIP (Vacuum Insulated Panel)
- HDPE corrugated outer casing pipe around the insulation layer (color: black)

The corrugated outer casing pipe may only be marked with Kiwa in case all parts of the piping package (including isolation material) fulfill the requirements of BRLK17401 part A. The corrugated outer casing pipes are provided with the following marks:

- **KIWA**  + DH1/ 10 bar;
- certificate number of the accompanying technical approval-with-product certificate of the piping system
- manufacturer's name, trade name or system name;
- material indication inner pipe: PE-Xa;
- nominal outside diameter of the outer casing pipe in mm;
- number of inner pipes with nominal outside diameter and wall thickness in mm;
- production code.

## Logistics

Production and assembly of the system is laid down in the annex of the certification agreement.

## APPLICATION AND USE

The products are designed for drinking water installations with a lifetime of 30 years at an operating temperature profile according to class DH1 of BRL K17401 part A and an allowable working pressure of maximum 10 bar.

The corrugated protection pipes have to protect the construction and protection against external influences (after installation).

## RECOMMENDATIONS FOR CUSTOMERS

Check at the time of delivery whether:

- the supplier has delivered in accordance with the agreement;
- the mark and the marking method are correct;
- the products show no visible defects as a result of transport etc.

If you should reject a product on the basis of the above, please contact:

- UPONOR GmbH
- and, if necessary,
- Kiwa Nederland B.V.

Consult the supplier's processing guidelines for the proper storage and transport methods.