



KOMO®
Product certificate
K109658/01



Issued 2022-04-01 Replaces -
Valid until Indefinite Dated
Page 1 of 2

VIP (Vacuum Insulated Panel)

UPONOR GmbH

STATEMENT BY KIWA

This product certificate is based on Guideline/BRL 5609- part 2 "Pre-insulated flexible plastics piping systems for warm water distribution outside buildings- Products" dated 27 August 2019 issued according to the Kiwa-Regulation for Certification.

The quality system and the product characteristics of this product are checked periodically. Based on this, **Kiwa declares** that there is legitimate confidence that:

Upon delivery, the product supplied by the certificate holder meets the requirements:

- Of the technical specifications laid down in this product certificate,
- The product requirements laid down both in this product certificate and in the Guideline/BRL.

Provided the product is accompanied by the KOMO® quality mark in the manner set out in this product certificate.

Ron Scheepers
Kiwa

This product certificate is only valid in combination with a KOMO certified plastics piping system.

This product certificate is also included on the KOMO foundation websites: www.komo.nl and www.komo-online.nl.

Users of this product certificate is advised to check whether it is still valid. For this purpose consult the website of Kiwa: www.kiwa.nl.

Kiwa Nederland B.V.
Sir Winston Churchillaan 273
Postbus 70
2280 AB RIJSWIJK
The Netherlands
Tel. +31 88 998 44 00
Fax +31 88 998 44 20
NL.Kiwa.info@Kiwa.com
www.kiwa.nl

Certificate holder
UPONOR GmbH
Industriestrasse 56
97437 HASSFURT
Germany
Tel. 9521 6900
Fax 9521 690105
info.de@uponor.com
www.uponor.com

Production location
va-Q-tec AG,
Alfred-Nobel-Strasse 33
97080 Würzburg
Germany
Tel.: +49 (0)931 35 942 0
Fax: +49 (0)931 35 942 10
info@va-q-tec.com
www.va-q-tec.com



Assessed is:
• Quality system
• Product
Periodic control

VIP (Vacuum Insulated Panel)

TECHNICAL SPECIFICATION

Subject

VIP (Vacuum Insulated Panel)

Product characteristics

The product complies to BRL 5609 Pre-insulated flexible plastics piping systems for warm water distribution outside buildings - Part 2: Products.

Specification

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

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

Marking

The products shall be marked with the KOMO[®] 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 (colour: natural)
- VIP (Vacuum Insulated Panel) around the medium carrying pipe
- Dog bone from PE-X foam around 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 (colour: black)

The corrugated outer casing pipe may only be marked with KOMO[®] in case all parts of the piping package (including isolation material) fulfill the requirements of BRL5609-2. The corrugated outer casing pipes are provided with the following marks:

- word mark KOMO[®] or logo;
- manufacturer's name, trade name or system name;
- material indication inner pipe: PE-Xa;
- class DH1;
- design pressure: 6 bar;
- nominal outside diameter of the ducting pipe in mm;
- number of inner pipes with nominal outside diameter and wall thickness in mm;
- production code.

The realization of these marks is as follows: clear and non-erasable at intervals of not more than 2 m.

Logistics

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

APPLICATION AND USE

The products are intended to be used for piping systems for warm water distribution outside buildings with a lifetime of 30 years at an operating temperature profile according to class DH1 of BRL 5609-2 and an allowable working pressure of maximum 6 bar.

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

RECOMMENDATIONS FOR USERS

Check on delivery of the products listed under the "technical specification" whether:

- The product(s) and material(s) ordered are delivered in accordance with the agreement you made.
- The brand and the method of marking is correct
- No defects or damage is visible (for example, resulting from the transportation).

If on the basis of the foregoing you decide to proceed to rejection, please contact

- UPONOR GmbH

And if necessary,

- Kiwa Nederland B.V.

Carry out the storage, transport and processing in accordance with the provisions included in this product certificate and/or documents of the certificate holder.

