

Pre-insulated flexible plastics piping systems for warm water distribution

Introduction

The certification with the KOMO mark is based on piping systems, i.e. pipes, fittings, insulation and outer casing assembled together. This means that for these systems is not possible to certify just a particular part like the pipe or fitting on its own. If a piping system is certified, the process for installing also must have been certified.

The plastics piping systems are certified for 30 years life expectance. For district heating there are three pressure classes, under the conditions mentioned in table 1.1.:

- 10 bar
- 8 bar
- 6 bar

Table 1.1 Classification system

	Temperature [ºC]	Lifetime	Overall service coefficient
T_{design}	80	29 years	1,5
T _{max}	90	1 year	1,3
T malfunction	95	100 hours	1,0
Remark: the mention	oned temperature profile	is in accordance wit	h class DH1

^{*)} DH = district heating

The requirements to obtain the KOMO mark is established in the evaluation guideline (BRL)

BRL 5609 "Pre-insulated flexible plastics piping systems for warm water distribution outside buildings".

Part 1: Installation
Part 2: Product

Application

For the application the following information about the system are required:

- Type of material pipe/ fitting/ insulation/ outer casing; (PE/PB/PE-X/PE-RT II/...);
- Supplier of the raw materials (plastics/ metals);
- ISO 9080 data of the used plastics if available (30 years life expectance);
- The construction drawings of the pipe/ fittings/ outer casing;
- Dimensions of the pipe/ fitting/ outer casing;
- Production location of the pipe/ fitting/ insulation/ outer casing and the piping system.

Sir Winston Churchilllaan 273

Postbus 70

Fax: +31

2280 AB RIJSWIJK

E-mail: info

The Netherlands

www.kiwa.nl

Tel.: +31 88 998 44 00 Fax: +31 88 998 44 20 E-mail: info@kiwa.nl



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Initial inspection visit

An auditor will visit your company and take the test samples. He will audit the quality system to secure that the products and, when concerned, the welds can be produced with a constant quality. The production control data will be registered in an Internal Quality Schedule (IQS).

Type testing

The test program for mechanical tests is described in the BRL and in an internal guideline. The requirements are based on national- or preferably international product standards. For the application we can accept test reports of identical tests, carried out by laboratories that are accredited according to EN-ISO/IEC 17025 and recognized by Kiwa. Please send the test reports along with the application.

Certification

When the initial inspection visit and the type testing are finished with a good result the certificate will be issued. From a half year later the inspection visits will start.

Inspection visits

The inspector will visit the company site and, when concerned, the construction sites four times a year. When the company has an ISO 9001 certificate the frequency will be lowered to two times a year. Each year samples will be taken for examination at the KIWA laboratory.

Certificate

The certificate contains information of the product which are covered by the certificate, next to the logistic information and the contract for maintaining the certificate.

Private label

For an importer of plastics piping system it is possible to have a copy of the certificate from the original producer on your own name. For this the original producer needs to grand permission. Also the brand name of the product can be changed in the new private label certificate.

One Stop Shopping

Kiwa offers you the service of dealing with certification/testing for other countries and Quality marks. When you are interested in this service, please contact us with your specific request.

+31 88 998 44 00 +31 88 998 44 20

Fax:



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More information:

warm water distribution outside buildings https://www.kiwa.com/en/service/brl-5609-pre-insulated-flexible-plastic-piping-systems-for-warm-water-distribution-outside-buildings/

If you have any questions or if you need more information regarding the KOMO approval, please send an e-mail to: <a href="mailto:https://example.com/https://example.c