



Technical-approval-with-product certificate **K67678/08**

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Replaces K67678/07

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Tigris M1/M5 system

STATEMENT BY KIWA

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

Wavin Nederland B.V.

as specified in this technical-approval-with-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-K536 E "Plastic piping systems of PE-X/Al for hot and cold drinking water" dated 15-12-2011 inclusive amendment sheet dated 13-03-2018.

Within the framework of this technical-approval-with-product certificate Kiwa does not impose any inspections with regard to the production of other parts of the Tigris M1/M5 system, nor the manufacturing of the Tigris M1/M5 system itself.

Ron Scheepers
Kiwa

Publication of this certificate is allowed.

Advice: consult 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

Tigris M1/M5 system

TECHNICAL SPECIFICATION

Subject

Tigris M1/M5 system

Product characteristics

The product complies to BRL K536-E Plastics piping systems of PE-X/Al intended for transport of hot and cold drinking water.

The system consists of:

- PE-Xc/Al/PE-HD pipes produced by Multilayer Pipe Company Sp. Z.o.o. (certificate K25071);
- Metal press fittings produced by Wavin Nederland B.V. (certificate K49438).

Specification

The dimensions of the pipe in the table below are part of this certificate.

Nominal diameter (mm)	Type fitting	Wall thickness (mm)	Wall thickness aluminum (mm)
14	M5	2,0	0,20
16	M5	2,0	0,20
20	M5	2,25	0,24
25	M5	2,5	0,30
32	M5	3,0	0,40
40	M5	4,0	0,50
50	M1	4,5	0,70
63	M1	6,0	0,60

- Colour pipe: transparent inside/ white outside
- Colour fitting body: M1 tin plated
M5 bass

Remarks:

- The joints (press system) are made by a press tool
- Press profile fitting:
 - M1 all diameters: U
 - M5 14 mm: TH-H-U-Up
 - M5 16, 20 and 32 mm: B-H-TH-U-Up
 - M5 25 mm: H-TH-U-Up
 - M5 40 mm: H-TH-U

Fitness for contact with drinking water

The pipes and fittings used in this system are approved on the basis of the requirements for hygienic aspects set in the "Regeling materialen en chemicaliën drink- en warm tapwatervoorziening" dated 01-07-2017; ("Materials and chemicals in the supply of drinking water and warm tap water Regulation"; published in the Government Gazette). The criteria for these hygienic aspects are recorded in the respective product certificates.

MARKING

The products shall be marked with the Kiwa-mark.

Pipes

The minimum required marking on the pipes shall be:

- **KIWA**  or  * + class 2 / 10 bar;
- material identification: PE-Xc;
- the build up of the pipe: PE-Xc/Al/PE-HD;
- certificate number of accompanying technical approval-with-product certificate of the piping system;
- the manufacturer's name, trade name, system name or logo;
- nominal outside diameter in mm;
- nominal wall thickness of the pipe in mm;
- production code.

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Place of marking: on every pipe at intervals of not more than 2 meters
The realization of the marks is as follows: clearly, durable and indelible.

*) for smaller diameters permitted in consultation with Kiwa.

Fittings

The minimum required marking on the fittings shall be:

- **KIWA**  or on small products  or  or **KK** * or **KK** * (if not possible **KIWA**  only on the smallest packaging unit)**;
- the manufacturer's name, trade name or logo;
- nominal outside diameter of the corresponding pipe;
- production code.

The realization of the marks is as follows: clearly, durable and indelible.

The smallest packaging unit of the fittings are provided with at least the following information:

- **KIWA** 
- certificate number of the accompanying technical approval-with-product certificate of the piping system, according the marking of the belonging pipe;
- the manufacturer's name, trade name, system name or logo;
- material identification if the fitting body is made of plastics;
- nominal outside diameter and nominal wall thickness of the corresponding pipe in mm.

The realization of the marks is as follows: clearly, durable and indelible on every packaging.

LOGISTICS

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

APPLICATION AND USE

The medium pipes and fittings are designed for drinking water installations with a lifetime of 50 years at an operating temperature profile according to class 2 of NEN-ISO 10508 and an allowable working pressure of maximum 10 bar.

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:

- Wavin Nederland B.V.
- and, if necessary,
- Kiwa Nederland B.V.

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