



KOMO[®]
Technical approval-with-product certificate
K92410/03



Issued 2019-08-15 Replaces K92410/02
 Valid until Indefinite Dated 2016-12-15
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Multitubo System 1

DW Verbundrohr GmbH

STATEMENT OF KIWA

This technical approval-with-product certificate on the basis of BRL 5611 Plastics piping systems of PE-RT/Al intended for heating installations: radiator connections issued on 25 October 2016 by Kiwa, in accordance with the Kiwa Regulation for Certification.

The quality system and the product characteristics belonging to the Multitubo System 1 are checked periodically and the performance of the Multitubo System 1 in the application as floor heating is assessed. The basic principles for the assessment are checked periodically.

Based on this Kiwa declares that :

- legitimate confidence exists that the by the holder of the technical approval- with-product certificate delivered Multitubo System 1 comply with :
 - the technical specifications as laid down in this technical approval-with-product certificate;
 - the product requirements as laid down in this technical approval-with-product certificate , provided that they have been marked the Multitubo System 1 System with the KOMO[®]-mark in the manner as indicated in this technical approval-with-product certificate;
- the Multitubo System 1 provides the performances as described in this KOMO technical approval-with-product certificate, provided that:
 - the application conditions and technical specifications as described in this KOMO approval-with-product certificate are met;
 - the manufacturing takes place according to the processing methods as laid down in this technical approval-with-product certificate.

Within the framework of this KOMO technical approval-with-product certificate there is no inspections with regard to the production of other parts of the Multitubo System 1 or the processing of the Multitubo System 1.

Ronald Karel
 Kiwa

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

CERTIFICATE

474/18121

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Evaluated is:
 Quality system
 Product
 Performance in application
 Periodic inspection

Multitubo System 1

TECHNICAL SPECIFICATION

Subject

Multitubo System 1

Product characteristics

The product complies to BRL 5611 Plastics piping systems of PE-RT/Al intended for heating installations: radiator connections.

The system consists of:

- PE-RT/Al pipes;
- metal brass press and push fittings
- PPSU push fittings (16, 20 and 25 mm) and PPSU press fittings (16, 20, 25, 26 and 32mm);
- Corrugated protection pipes.

Specification

The dimensions of the pipe in combination with the PPSU push and brass fittings according to the table below are part of this certificate.

Nominal outside diameter (mm)	Wall thickness (mm)	Wall thickness aluminum layer (mm)
16	2,0	0,20
20	2,25	0,24
25	2,5	0,30
32	3,0	0,35
40	4,0	0,50
50	4,5	0,50
63	6,0	0,50
75	7,5	0,50

Colour:

- PE-RT/Al pipes: transparent inside / white or red outside;
- Metal press fittings 16 – 75mm: grey;
- Metal push fittings 16-20-25-32 mm: grey;
- PPSU push fittings 16-20-25 mm: beige.

The connection of the brass fittings are made with a special compression tool (press contour U).

The dimensions of the pipe in combination with the PPSU press fittings according to the table below are part of this certificate.

Nominal outside Diameter (mm)	Wall thickness (mm)	Wall thickness Aluminium (mm)
16	2,0	0,20
20	2,0	0,24
20	2,25	0,24
25	2,5	0,30
26	3,0	0,30
32	3,0	0,35

Colour:

- PE-RT/Al pipes: natural inside / white or red outside;
- PPSU press fittings: natural.

Remarks:

- Two PPSU press fitting types are applicable, MM and MC;
- The jointing of the PPSU press fittings is made by special crimping tools, with press contour:
 - MM fitting: "TH; H and U";
 - MC fitting: "U".

