

## Technical-approval-with-product certificate **K41838/06**

Issued 2023-09-15

Replaces K41838/05

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### **Pipes and fittings made of glass-reinforced polyester for the transport of drinking water – Continuous filament winding - Amiblu CFW piping 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

### **Amiblu Technology AS**

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-K17605** "Water supply with or without pressure - GRP based on unsaturated polyester resin" dated 08-06-2023.

Within the framework of this product certificate Kiwa does not impose any inspections with regard to the production of other parts of the Amiblu CFW piping system, nor the manufacturing of the Amiblu CFW piping system itself.

Ron Scheepers  
Kiwa

*Publication of this certificate is allowed.*

*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

## Pipes and fittings made of glass-reinforced polyester for the transport of drinking water – Continuous filament winding - Amiblu CFW piping system

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### TECHNICAL SPECIFICATION

The Amiblu CFW piping system consists of the following parts:

- Pipes, fittings (including couplings) and joints;
- The couplings consist of a GRP sleeve with a permanently fitted gasket seal.

The Amiblu CFW piping system is designed for uniaxial use (without hydrostatic end thrust) and suitable for the conveyance of drainage (surface) or sewerage water at temperatures up to 35 °C.

#### Pressure class (PN)

1, 2, 4, 6, 8, 10, 12.5, 16, 20, 25, 32.

#### Nominal diameter range (DN)

300, 350, 400, 450, 500, 600, 700, 800, 900, 1000, 1100, 1200, 1300, 1400, 1500, 1600, 1700, 1800, 1900, 2000, 2100, 2200, 2300, 2400, 2500, 2600, 2700, 2800, 2900, 3000.

#### Stiffness class (SN)

1250, 2500, 5000, 10000, 12500 up to and including 1000000.

#### 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

#### Pipes

Marking details shall be printed or formed directly on the pipe in such a way that the marking does not initiate cracks or other types of failure. If printing is used, the colouring of the printed information shall differ from the basic colouring of the product and such that the markings shall be readable without magnification.

The following marking details shall be on the outside of each pipe, and in the case of pipes of DN 600 or greater shall be either on the inside or on the outside surface:

- Number of this evaluation guideline or the applicable standard: "BRL K17605" or "EN-ISO 23856";
- Nominal size DN and diameter series: "B1 or B2";
- Stiffness rating;
- Pressure rating;
- Certificate number;
- Manufacturer's name or identification;
- Date or code of manufacturer;
- Quality mark: KIWA  .

Note: Pipe is supplied by the factory with a coupling installed on one end. Pipe and coupling may also be supplied separately upon request.

#### Fittings


Marking details shall be printed or formed directly on the fitting in such a way that the marking does not initiate cracks or other types of failure. If printing is used, the colouring of the printed information shall differ from the basic colouring of the product and such that the markings shall be readable without magnification.

The following marking shall be on the outside of each fitting:

- Number of this Assessment Directive or applicable standard: "BRL K17605" or "EN-ISO 23856";
- Nominal size DN and diameter series: "B1 or B2";
- For bends, branches or saddles, the designated fitting angle; (not applicable for couplings)
- For reducers nominal sizes DN1 and DN2; (not applicable for couplings)
- Stiffness rating; (not applicable for couplings)
- Pressure rating;
- Joint type: "flexible joint" and "non end-load-bearing"; (not applicable for couplings)
- Manufacturer's name or identification;

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- Date or code of manufacture;
- Certificate number;
- Quality mark: KIWA 

### PERFORMANCES IN THE APPLICATION

The minimum lifetime of the Amiblu CFW piping system is 50 years.

The applicable nominal pressures and stiffnesses (see technical specification) are suitable for the conveyance of drinking water at temperatures up to 35 °C.

### PRODUCT CHARACTERISTICS

The following jointing technique is used within the Amiblu CFW piping system.

- Flexible non-end-load-bearing joints with elastomeric sealing rings.

### INSTALLATION INSTRUCTIONS

The supplier shall provide installation instructions, approved by Kiwa Nederland B.V.. A reference to these instructions shall be made at or near the packaging. The instructions are published in the Dutch or English language and contains at least specific information with regard to storage, transport, processing temperature and construction of the joints. The installation instruction shall also include specific information regarding the putting into use as well as being in use of the Amiblu CFW piping system.

### RECOMMENDATIONS FOR THE USER

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

- Amiblu Technology AS;
- And if necessary,
- Kiwa Nederland B.V.

Carry out the storage, transport and processing in accordance with the provisions included in this product certificate as well as with the above mentioned installation instructions of the certificate holder.