



KOMO®
Technical approval-with-product certificate
K88485-02



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Valid until Indefinite Dated 2015-08-01
Page 1 of 3

Pipes and fittings made of glass reinforced polyester for drainage and sewerage

Superlit Boru Sanayi A.S.

STATEMENT BY KIWA

This technical approval-with-product certificate is issued on the basis of BRL 52204 "Plastic piping systems for drainage and sewerage with or without pressure – glass reinforced thermosetting plastics (GRP) based on unsaturated polyester resin (UP)" dated 19-12-2016, in accordance with the Kiwa Regulations for Product Certification.

The quality system and the product characteristics belonging to the pipes and fittings made of glass reinforced polyester for drainage and sewerage are checked periodically and the performance of these products in its application is assessed. The basic principles for the assessment are checked periodically.

On this basis Kiwa declares that:

- a justified confidence exists, that the pipes and fittings made of glass reinforced polyester for drainage and sewerage as delivered by the certificate holder comply with:
 - the technical specification as laid down in this technical approval-with-product certificate;
 - the product requirements as laid down in this technical approval-with-product certificate and in the BRL; provided the products have been marked with the KOMO®-mark in a manner as indicated in this technical approval-with-product certificate;
- the with the pipes and fittings made of glass reinforced polyester composed piping systems provide the performances as described in this technical approval-with-product certificate, provided that:
 - the application conditions and the technical specifications as laid down in this technical approval-with-product certificate are met;
 - the manufacturing is in accordance with the regulations and processing methods as laid down in this technical approval-with-product certificate.

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 pipes and fittings made of glass reinforced polyester for drainage and sewerage, nor the manufacturing of the pipes and fittings made of glass reinforced polyester for drainage and sewerage itself.

Luc Leroy
Kiwa

*The certificate is listed in the overview on the website of Stichting KOMO: www.komo.nl.
Advice: consult www.kiwa.nl in order to ensure that this certificate is still valid.*

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Evaluated is:
Quality system
Product
Performance in
application
Periodic inspection

Pipes and fittings made of glass reinforced polyester for drainage and sewerage with or without pressure

TECHNICAL SPECIFICATION

General

To this certificate belong pipes, couplings and joints in conformity with evaluation guideline BRL 52204 "Plastics piping systems for drainage and sewerage with or without pressure – glass reinforced thermosetting plastics (GRP) based on unsaturated polyester resin (UP) dated 2016-12-19".

Pipes and couplings

Pipes and couplings are designed for uni-axial use (without hydrostatic end thrust). Only SUPERLIT GRP Couplings, consisting of a GRP sleeve with a permanently fitted, full width EPDM gasket seal belong to this certificate.

Pressure class (PN)

1, 2.5, 4, 6, 10.

Nominal diameter range (DN)

DN 150 up to and including DN 2400, according to manufacturer's list.

Stiffness class (SN)

5000, 10000.

MARKING

Pipes

Marking details shall be printed or formed directly on the pipes 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, i.e. BRL 52204.
- Nominal size DN and diameter series, i.e. A, B1, B2, etc..
- Stiffness rating in accordance with clause 4.4 of the evaluation guideline.
- Pressure rating in accordance with clause 4.4 of the evaluation guideline.
- Manufacturer's name or identification.
- Date or code of manufacture.
- Letter "H" to indicate suitability for use above ground, if applicable.
- Certificate number.
- Quality mark: letters KOMO or KOMO[®] logo.

Couplings

Marking details shall be printed or formed directly on the couplings 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 coupling, and in the case of couplings of DN 600 or greater shall be either on the inside or on the outside surface:

- Number of this evaluation guideline, i.e. BRL 52204.
- Nominal size DN and diameter series, i.e. A, B1, B2, etc..
- Pressure rating in accordance with clause 4.4 of this evaluation guideline.
- Manufacturer's name or identification.
- Date or code of manufacture.
- Letter "H" to indicate suitability for use above ground, if applicable.
- Certificate number.
- Quality mark: letters KOMO or KOMO[®] logo.



Pipes and fittings made of glass reinforced polyester for drainage and sewerage with or without pressure

RECOMMENDATIONS FOR USERS

The products are destined for the transport of sewerage water, process water and other whether or not industrial waste water at temperatures up to 35 °C. For service temperatures over 35 °C type tests have to be carried out, at least at the design service temperature +5/0 °C, to establish re-rating factors for all properties used in design.

Take into account:

- the handling and storage guidelines and;
- the installation guidelines of the manufacturer.

Check at the time of delivery whether:

- the products are in accordance with the agreement;
- the mark and marking method are correct;
- the product show no visible defects as a result of e.g. transport.

Examine by delivery if the under "processing" mentioned products satisfy to this mentioned specifications.

If you should reject a product on the basis of the above, please contact:

- Superlit Boru Sanayi A.S.

and, if necessary:

- Kiwa Nederland B.V.

Consult the installation instructions of the producer for the correct way of storage, transport and processing of the products.

Take the application conditions mentioned under "performances" in consideration.

CONSTRUCTION PRODUCTS REGULATIONS

If a construction product is subject to a European harmonised technical specification, the statements in this KOMO attestation including product certificate must not be used as a replacement for the CE marking on such construction product and/or for the associated obligatory Declaration of Performance.

RECOMMENDATION FOR THE CUSTOMER

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.

Examine at delivery of the products mentioned under "processing" that they comply to the mentioned specifications.

if you should reject a delivery on the basis of the above, please contact:

- Superlit Boru Sanayi A.S.

and, if necessary:

- Kiwa Nederland B.V.

For the proper storage, transport and processing follow the instructions given under "processing".

Take notice of the application conditions given under "Performances in application".

