

EUROHEAT & POWER

CERTIFICATE NUMBER 01/10

PRODUCT "Logstor OPTI" preinsulated district heating pipes, single and twin pipe system, with service pipes DN 400 – 1200 and casing pipes 520 – 1400 mm

LICENSEE Logstor Polska Sp. z o.o.
ul. Fabryczna 12
PL-44240 Zory, Poland

PRODUCTION PLANT Logstor Polska Sp. z o.o. ul. Fabryczna 12
PL-44240 Zory
Poland



EUROHEAT & POWER

GUIDELINES: EHP/001
CERTIFICATE: 01/10

VALID UNTIL 5.9.2022

This certificate is granted in accordance with the Euroheat & Power Certification Guidelines for Quality Assessment of District Heating Pipes [001]

Name, Signature

Date, Place

Lennart Månsson

5.9.2016, Borås



SP Technical Research Institute
of Sweden
Box 857
SE-501 15 Borås
Sweden
www.sp.se

The production complies with EN 253, EN 448 and EHP Certification Guidelines [001].

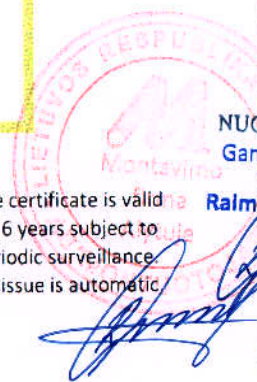
The licensee may use the Euroheat & Power Certification Board quality mark.

The certificate is valid only for the production plant mentioned in the certificate.

The materials used are contained in the confidential Annex to this certificate.

The certificate is valid for 6 years subject to periodic surveillance. Re-issue is automatic.

Refer to the Euroheat & Power Certification Guidelines [001] for full requirements and conditions



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Logstor Polska Sp. zo.o.
ul Handlowa 1
Mikulczyce
PL-41-807 Zabrze
Poland

Annual inspection for EHP-approval

Manufacturer: Logstor Polska Sp. zo.o., Zory
Product: District heating pipes, OPTI production
Standard: EN 253:2009+A2:2015 and EN 15698-1:2009
Certification rules: Euroheat & Power EHP/001, January 2016
Certificate: 01/10
Agreement: 210-04-0347
Date of inspection: 2016-04-14
Manufacturer's representative: Iwona Szolc, Beata Bondaruk

Manufacturer Quality Certificate: ISO 9001:2008

At the inspection visit the manufacturer's quality plan and quality surveillance resources were examined in respect of the requirements laid down in EN 253:2009+A2:2015 and EN 15698-1:2009 and in the Euroheat & Power Certification Guidelines EHP/001, January 2016. The examination also included the extent and results of the manufacturer's internal quality surveillance activities directed towards the products in question.

The tables below summarise the results of the assessments performed. The corresponding clause in EN 253:2009+A2:2015 and EN 448:2009 are given as reference.

Service pipe, EN 253:2009+A2:2015

Clause	Characteristic	Manufacturer's reference doc.	Judgment of documentation, resources and results
4.2.1	Make, marking delivery specification	GITP 300-01	No remarks
4.2.2 4.2.3	Dimensions	GITP 300-01	No remarks
4.2.4	Finish, surface, etc	GITP 300-01	No remarks

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M. Monušas
Firma
Gamybos skyriaus
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Casing pipe, EN 253:2009+A2:2015

Clause	Characteristic	Manufacturer's reference doc.	Judgment of documentation, resources and results
4.3.1	Material	GITP 300-01	No remarks
4.3.1.1	Carbon black dispersion	Certificates	No remarks
4.3.1.3	Thermal stability	GITP 314-01 11	No remarks
4.3.1.4	Use of rework material	GITP 314-01 11	No remarks
4.3.2.1 4.3.2.2	Diameter Wall thickness	GITP 314-01 14	No remarks
4.3.2.3	Appearance and surface finish	GITP 314-01 14	No remarks
4.3.2.4	Elongation at break	GITP 314-01 15	No remarks
4.3.2.6	Stress crack resistance	GITP 314-01 15	No remarks


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Polyurethane foam insulation, EN 253:2009+A2:2015

Clause	Characteristic	Manufacturer's reference doc.	Judgment of documentation, resources and results
4.4.1	Composition Make, marking and delivery specifications	GITP 314-01 4	No remarks
4.4.2	Cell structure - Cell size	GITP 314-01 15	No remarks
4.4.2	Cell structure – Closed cell content	-	Not in inspection plan, not yet performed.
4.4.2	Cell structure – Voids and bubbles	GITP 314-01 15	No remarks
4.4.3	Compressive strength	GITP 314-01 15	No remarks
4.4.4	Density	GITP 314-01 10	No remarks
4.4.5	Water absorption	GITP 314-01 15	No remarks


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Pipe assembly
Single pipe EN 253:2009+A2:2015

Clause	Characteristic	Manufacturer's reference doc.	Judgment of documentation, resources and results
4.5.2 and 4.5.3	Dimension of pipe ends and outside diameter	GITP 314-01 14	No remarks
4.5.4	Centre line deviation	GITP 314-01 15	No remarks
4.5.11	Measuring wires EN 14419:2009	GITP 314-01 10	No remarks

Twin pipe, EN 15698-1:2009

Clause	Characteristic	Manufacturer's reference doc.	Judgment of documentation, resources and results
4.5.1	End alignment of forward and return service pipes	GITP 314-01 10	No remarks
4.5.2	Distance between forward and return service pipes	GITP 314-01 10	No remarks
4.5.3	Twisting of service pipes	GITP 314-01 10	No remarks

Conclusion

The manufacturer's Quality Plan and quality surveillance resources, activities and results fulfil the requirements specified in Euroheat & Power EHP/001, January 2016.

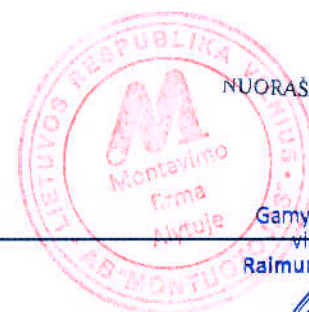
SP Technical Research Institute of Sweden
SP Structural and Solid Mechanics - Pipe Centre

Performed by



Signed by: Lars Erlandson
Date & Time: 2016-04-19 10:45:17 -02:00

Lars Erlandson



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