DNV-GL

APPROVAL OF MANUFACTURER CERTIFICATE

Certificate No: **AMMM0000148** Revision No:

1

This is to certify:

That

TRINECKÉ ŽELEZÁRNY, a.s. VT - VÁLCOVNA TRUB Výstavní 1132, Ostrava - Vítkovice, Czech Republic

is an approved manufacturer of **Steel Pipes and Fittings**

in accordance with

DNV GL rules for classification – Ships DNVGL-OS-B101 – Metallic materials

and the following particulars:

Product Pipes

Application area Pipes for pressure systems,

Boiler and superheater tubes

Steel type Carbon and carbon-manganese

Manufacturing method Seamless
Max. outer diameter See page 2
Max. wall thickness See page 2
Heat treatment condition See page 2

Manufacturer(s) approved by this certificate is/are accepted to deliver according to DNV GL, DNV and GL rules. Materials to be applied to DNV GL classed object shall fulfill the material requirements in the applicable DNV GL class rules.

Issued at Hamburg on 2020-07-21

for **DNV GL**

This Certificate is valid until **2022-12-31**.

DNV GL local station: Prague CMC

Approval Engineer: Christian Wildhagen

Thorsten Lohmann Head of Section

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV GL AS, its parent companies and subsidiaries as well as their officers, directors and employees ("DNV GL") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to 300,000 USD.



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Job Id: **263.11-010929-1** Certificate No: **AMMM0000148**

Revision No: 1

Particulars of the approval

Pipes for pressure systems

Steel type /grade 1)	Manufacturing method 1)	Max. outer diameter [mm]	Max. wall thickness [mm]	Heat treatment condition
C and C-Mn	Seamless	406.4	60	Acc. standard

Boiler and superheater tubes

Steel type /grade ²⁾	Manufacturing method 1)	Max. outer diameter [mm]	Max. wall thickness [mm]	Heat treatment condition
C and C-Mn	Seamless	406.4	60	Acc. standard

Remarks:

Pipes for pressure systems Suitable pipe grades shall be selected from the following recognized standards: ISO 9329 Parts 1 and 2, ISO 9330 Parts 1 and 2, EN 10216 Parts 1 to 3, EN 10217 Parts 1 to 3, EN 10305 Part 1 and 2, ASTM A53, ASTM A106, ASTM A135, ASTM A335, JIS G3454, JIS G3455, JIS G3456 or JIS G3458

Boiler and superheater tubes Suitable pipe grades shall be selected from the following recognized standards: ISO 9329 Part 2, ISO 9330 Part 2, EN 10216 Part 2, EN 10217 Part 2, ASTM A178, ASTM A209, ASTM A210, ASTM A213, JIS G3461, JIS G3462 or JIS G3463

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