



APPROVAL OF MANUFACTURER CERTIFICATE

Certificate No:
AMMM0000200
Revision No:
1

This is to certify:

That

TRINECKÉ ŽELEZÁRNY, a.s., VT - VÁLCOVNA TRUB
Výstavní 1132, Ostrava-Vitkovice,
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
Steel type	Structural hollow sections
Manufacturing method	Carbon and carbon-manganese
Max. outer diameter	Seamless, hot formed
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 classed object shall fulfill the material requirements in the applicable DNV class rules.

Issued at **Hamburg** on **2021-11-29**

for **DNV**

This Certificate is valid until **2023-11-30**.

DNV 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 AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") 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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Particulars of the approval

Pipes for pressure systems

Steel type /grade ³⁾	Manufacturing method ¹⁾	Max. outer diameter [mm]	Max. wall thickness [mm]	Heat treatment condition ²⁾
Carbon, Carbon-Manganese	HFS	406.4	60.3	N, AF

Hollow sections / structural steel pipes

Steel type /grade ⁴⁾	Manufacturing method ¹⁾	Max. outer diameter [mm]	Max. wall thickness [mm]	Heat treatment condition ²⁾
S355J2H acc. EN 10210-1	HFS	406.4	60.3	N, AF

Remarks:

- 1) HFS: hot finished seamless
- 2) N: Normalised
AF: As formed
- 3) Suitable pipe grades shall be selected from the following recognised 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 and JIS G3458
- 4) Possible application and certification of any material to classed object is subject to case by case approval