

APPROVAL OF MANUFACTURER CERTIFICATE

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
DNV GL offshore standards

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
Additional approval conditions	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 **2018-03-28**

for **DNV GL**

This Certificate is valid until **2020-11-30**.

DNV GL local station: **Prague**

Approval Engineer: **Christian Wildhagen**

Thorsten Lohmann
Head of Section



Particulars of the approval

Pipes for pressure systems

Steel type /grade ^{3) 4)}	Manufacturing method ¹⁾	Max. outer diameter [mm]	Max. wall thickness [mm]	Delivery condition ²⁾
Carbon, Carbon-Manganese	HFS	406.4	60.3	N, AF

Hollow sections / structural steel pipes

Steel type /grade ³⁾	Manufacturing method ¹⁾	Max. outer diameter [mm]	Max. wall thickness [mm]	Delivery 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) Certification of any material applied to classed object shall fulfill the applicable material requirements in the DNV GL class rules
- 4) 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