



APPROVAL OF MANUFACTURER CERTIFICATE

Certificate No:
AMMM00001WM
Revision No:
2

This is to certify:

That

VITKOVICE STEEL, a. s.
Českobratrská 3321/46, 702 00 - Ostrava,
Czech Republic

is an approved manufacturer of
Steelmaking and Rolled Steel Products

in accordance with

DNV rules for classification – Ships
DNV-OS-B101 – Metallic materials
DNV class programme – DNV-CP-0243 Rolled steel products – non stainless steel

and the following particulars:

Application area	Normal strength steel High strength steel Z-grade steels (plates with trough thickness properties)
Products	Plates
Manufacturing method	Basic oxygen converter, continuous casting/ingot casting
Max. 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 **2024-03-26**

This Certificate is valid until **2027-01-31**.

DNV local unit: **Prague CMC**

Approval Engineer: **Torben Schälicke**



for **DNV**

This document has been digitally signed and will
therefore not have handwritten signature

Stefan Röhr

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.



Form code: AM 311

Revision: 2022-12

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Particulars of the approval

Normal strength steel

Grade	Product	Steelmaking ¹⁾	Fine grain elements	Max. thickness [mm]	Heat treatment condition ²⁾	Z-quality
NV A	Plates	BOC, CC	Al	40	AR	-
	Plates	BOC, CC	Al+Nb	70	N	-
	Plates	BOC, IC	Al+Nb	100	N	-
NV B	Plates	BOC, CC	Al	40	AR	-
	Plates	BOC, CC	Al+Nb+V	70	N	-
	Plates	BOC, IC	Al+Nb+V	100	N	-
NV D	Plates	BOC, CC	Al	40	N	-
	Plates	BOC, CC	Al+Nb+V	70	N	-
	Plates	BOC, IC	Al+Nb+V	100	N	-
NV E	Plates	BOC, CC	Al+Nb	40	N	-
	Plates	BOC, CC	Al+Nb+V	70	N	-
	Plates	BOC, IC	Al+Nb+V	100	N	-

High strength steel

Grade	Product	Steelmaking ¹⁾	Fine grain elements	Max. thickness [mm]	Heat treatment condition ²⁾	Z-quality
NV A32, NV A36	Plates	BOC, CC	Al	40	NR	Z35
	Plates	BOC, CC	Al+Nb+V	70	N	Z35
	Plates	BOC, IC	Al+Nb+V	100	N	Z35
NV D32, NV D36	Plates	BOC, CC	Al	40	N	Z35
	Plates	BOC, CC	Al+Nb+V	70	N	Z35
	Plates	BC, IC	Al+Nb+V	100	N	Z35
NV E32, NV E36	Plates	BOC, CC	Al+Nb	40	N	Z35
	Plates	BOC, CC	Al+Nb+V	70	N	Z35
	Plates	BOC, IC	Al+Nb+V	100	N	Z35

Steels acc. to other standards³⁾

Grade	Product	Steel making ¹⁾	Fine grain elements	Max. thickness [mm]	Heat treatment condition ²⁾	Z-quality
Steel acc. to EN 10025-2						
S235JR, S235J0, S235J2	Plates	BOC, CC or IC	acc. to standard	100	acc. to standard	-
S355JR, S355J0, S355J2	Plates	BOC, CC or IC	acc. to standard	100	acc. to standard	Z35



Job Id: **263.11-004619-4**
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Remarks:

- 1) BOC: Basic oxygen converter
CC: Continuous casting
IC: Ingot casting
- 2) AR: As rolled
R: Normalising rolling
N: Normalised
- 3) Possible application and certification of any material to classed object is subject to case by case