



APPROVAL OF MANUFACTURER CERTIFICATE

Certificate No:
AMMM00001WM
Revision No:
1

This is to certify:

That

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

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 **2021-03-16**

for **DNV**

This Certificate is valid until **2024-01-31**.

DNV local station: **Prague**

Approval Engineer: **Stefan Röhr**

Thorsten Lohmann
Head of Section

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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
VL A	Plates	BOC, CC	Al	40	AR	-
	Plates	BOC, CC	Al+Nb	70	N	-
	Plates	BOC, IC	Al+Nb	100	N	-
VL B	Plates	BOC, CC	Al	40	AR	-
	Plates	BOC, CC	Al+Nb+V	70	N	-
	Plates	BOC, IC	Al+Nb+V	100	N	-
VL D	Plates	BOC, CC	Al	40	N	-
	Plates	BOC, CC	Al+Nb+V	70	N	-
	Plates	BOC, IC	Al+Nb+V	100	N	-
VL 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
VL A32, VL 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
VL D32, VL 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
VL E32, VL 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 standards ³⁾

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

Remarks:

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