



APPROVAL OF MANUFACTURER CERTIFICATE

Certificate No:
AMMM000027K
Revision No:
1

This is to certify:

That

Huta Bankowa Sp. z o.o.
ul. Sobieskiego 24, 41-300 Dąbrowa Górnicza,
Poland

is an approved manufacturer of
Steelmaking and Rolled Steel Products

in accordance with
DNV GL rules for classification – Ships

and the following particulars:

Application area	Normal strength steel High strength steel
Products	Bars for chain cables Sections, Bars, Semi-finished products for forging or rolling stock
Manufacturing method	Basic oxygen converter, continuous casting or ingot casting
Max. thickness	See page 2 ff.
Heat treatment condition	See page 2 ff.

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 **2021-06-24**

for **DNV**

This Certificate is valid until **2024-07-31**.

DNV local station: **Katowice**

Approval Engineer: **Stefan Röhr**

Thorsten Lohmann
Head of Section

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Particulars of the approval

Normal strength steel

Grade	Product	Steel making ¹⁾	Fine grain elements	Max. thickness / diameter [mm]	Heat treatment condition ²⁾
VL A	Bar	BOC, CC	Al	200	AR
VL A, VL B, VL D, VL E	Bar	BOC, CC or IC	Al	250	N
VL A	Section	BOC, CC	Al	30	AR
VL B	Section	BOC, CC	-	30	AR

High strength steel

Grade	Product	Steel making ¹⁾	Fine grain elements	Max. thickness / diameter [mm]	Heat treatment condition ²⁾
VL A32, VL A36, VL D32, VL D36, VL E32, VL E36	Sections	BOC, CC	Al	20	AR
VL A32, VL A36	Bar	BOC, CC	Al	200	N
VL A32, VL A36	Bar	BOC, IC	Al	250	N

Steels acc. other standards

Grade ^{3) 4)}	Product	Steel making ¹⁾	Fine grain elements	Max. thickness / diameter [mm]	Heat treatment condition ²⁾
Steels acc. to EN 10025-2					
S235JR, S235J0, S235J2, S275JR, S275J0, S275J2, S355JR, S355J0, S355J2	Section	BOC, CC	Acc. standard	20	Acc. standard
	Bar	BOC, CC or IC	Acc. standard	250	Acc. standard
Steels acc. to ISO 683-1 / EN 10083-2					
C22, C22E, C22R, C35, C35E, C35R, C40, C40E, C40R, C45, C45E, C45R, 28Mn6	Bar	BOC, CC or IC	Acc. standard	250	N, QT
Steels acc. to ISO 683-2 / EN 10083-3					
25CrMo4, 25CrMoS4, 34CrMo4, 34CrMoS4, 42CrMo4, 42CrMoS4, 30CrNiMo8, 34CrNiMo6	Bar	BOC, CC or IC	Acc. standard	250	QT
Steels acc. to ISO 683-3 / EN 10084					
16MnCr5, 16MnCrS5, 18CrNiMo7-6, 20MnCr5, 20MnCrS5	Bar	BOC, CC or IC	Acc. standard	250	QT

Bars for chain cables

Grade ³⁾	Product	Steel making ¹⁾	Fine grain elements	Max. thickness / diameter [mm]	Heat treatment condition ²⁾
VL K1, VL K2	Bar	BOC, CC	Al	52	AR

Semi-finished products

Steel type ³⁾	Product	Steel making ¹⁾	Max. thickness [mm]	Heat treatment condition ²⁾
C and C-Mn	Billet	BOC, CC or IC	250	AR
Alloy	Billet	BOC, CC or IC	250	AR

Remarks:

- 1) BOC: Basic oxygen converter
 CC: Continuous casting
 IC: Ingot casting
- 2) AR: As rolled
 N: normalised
 QT: quenched and tempered
- 3) Certification of any material applied to classed object shall fulfil the applicable material requirements in the DNV GL class rules
- 4) Incl. equivalent grades in acc. to other standards