



# APPROVAL OF MANUFACTURER CERTIFICATE

Certificate No:  
**AMMM000027K**  
Revision No:  
**2**

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 rules for classification – Ships**  
**DNV class programme – DNV-CP-0242 Semi-finished steel products**  
**DNV class programme – DNV-CP-0243 Rolled steel products – non stainless steel**

and the following particulars:

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

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 **2024-07-02**

This Certificate is valid until **2027-07-31**.

DNV local unit: **Katowice CMC**

Approval Engineer: **Stefan Röhr**



for **DNV**

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

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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Page 1 of 3

## Particulars of the approval

### Normal strength steel

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

### High strength steel

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

### Steels acc. other standards

Grade <sup>3) 4)</sup>	Product	Steel making <sup>1)</sup>	Fine grain elements	Max. thickness / diameter [mm]	Heat treatment condition <sup>2)</sup>
Steels acc. to EN 10025-2					
S235JR, S235J0, S235J2, S275JR, S275J0, S275J2, S355JR, S355J0, S355J2	Section	BOC, CC	acc. to standard	20	acc. to standard
	Bar	BOC, CC or IC	acc. to standard	250	acc. to 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. to 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. to standard	250	QT
Steels acc. to ISO 683-3 / EN 10084					
16MnCr5, 16MnCrS5, 18CrNiMo7-6, 20MnCr5, 20MnCrS5	Bar	BOC, CC or IC	acc. to standard	250	QT

**Bars for chain cables**

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

**Semi-finished products**

Steel type <sup>3)</sup>	Product	Steel making <sup>1)</sup>	Max. thickness [mm]	Heat treatment condition <sup>2)</sup>
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 class rules
- 4) Incl. equivalent grades in acc. to other standards