



# APPROVAL OF MANUFACTURER CERTIFICATE

Certificate No:  
AMMM0000082  
Revision No:  
7

This is to certify:

That

**Ozkan Demir Celik Sanayi A.S.**  
Bozköy Mahallesi 13. Cadde No:4 35800 Aliaga-Izmir,  
Turkey

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-0242 Semi-finished steel products  
DNV class programme – DNV-CP-0243 Rolled steel products – non stainless steel

and the following particulars:

Application area	Steelmaking Normal strength steel High strength steel
Products	Bars for chain cables Semi-finished products (billets, blooms), Sections, Bars
Manufacturing method	Electric arc furnace or basic oxygen converter, continuous casting
Max. thickness/diameter	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 **2023-03-01**

This Certificate is valid until **2025-12-31**.

DNV local unit: **Istanbul**

Approval Engineer: **Stefan Röhr**



for DNV

Digitally Signed By: Wildhagen, Christian

Location: DNV Hamburg, Germany

Signing Date: 01.03.2023, on behalf of

**Thorsten Lohmann**  
Head of Section

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

### Semi-finished products

Grade	Product	Steel making <sup>1)</sup>	Fine grain treatment
NV A, NV B	Billet, Bloom	EAF, CC	-
NV A 27S, NV A32, NV A36, NV D 27S, NV D32, NV D36, NV E 27S, NV E32, NV E36, NV D40	Billet, Bloom		Al+V
NV K2, NV K3	Billet, Bloom		Al

### Sections made from normal strength steel

Grade or type	Steel making <sup>1)</sup>	Fine grain treatment	Heat treatment condition <sup>2)</sup>	Max. thickness [mm]
NV A, NV B	EAF, CC	-	AR	25
NV E	EAF, CC	Al+V	TM	102

### Sections made from high strength steel

Grade or type	Steel making <sup>1)</sup>	Fine grain treatment	Heat treatment condition <sup>2)</sup>	Max. thickness [mm]
NV A27S, NV A32, NV A36 NV D27S, NV D32, NV D36	BOC or EAF, CC	Al+V	AR	25
NV E27S, NV E32, NV E36	BOC, CC	Al+V	NR	10
	EAF, CC		TM	28
NV D40	EAF, CC	Al+V	TM	45

### Sections made from steels acc. to other standards <sup>3)</sup>

Grade	Steel making <sup>1)</sup>	Fine grain elements	Heat treatment condition <sup>2)</sup>	Max. thickness [mm]
Steel acc. to EN 10025-2				
S355JR, 355J0, S355J2, S355K2	BOC, CC	Acc. standard	AR, TM	25

### Round bars for chain cables

Grade	Steel making <sup>1)</sup>	Fine grain treatment	Heat treatment condition <sup>2)</sup>	Max. diameter (mm)
NV K2	EAF, VD, CC	Al	AR	100
NV K3				65

### Remarks:

- 1) BOC: Basic oxygen converter; EAF: Electric arc furnace; CC: Continuous casting
- 2) AR: As rolled; NR: Normalizing rolling; TM: Thermo-mechanical rolling; N: Normalised
- 3) Possible application and certification of any material to classed object is subject to case by case approval