

APPROVAL OF MANUFACTURER CERTIFICATE

Certificate No: **AMMM00001GN** Revision No:

4

This is to certify:

That

KOREA STEEL CO., LTD. (Noksan Works)

84, Noksansandan 407-ro, Gangseo-gu, Busan, Republic of Korea,

is an approved manufacturer of 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

Product Structural sections,

Bars

Continuous casting,

See page 2

Deoxidation Killed
Max. thickness/diameter
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 2023-10-20

for DNV

This Certificate is valid until 2026-10-30.

DNV local unit: Gimhae Station

Approval Engineer: Dechun Lou

Thorsten Lohmann
Head of Section

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Job Id: **263.11-007689-4** Certificate No: **AMMM00001GN**

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Particulars of the approval

Normal strength steel

Grade	Product	Steel making 1) 3)	Fine grain elements	Max. thickness / diameter [mm]	Heat treatment condition ²⁾
NV A	Section, Bar	EAF or BOC, CC	-	15 / 65	AR

High strength steel

Grade	Product	Steel making 1) 3)	Fine grain elements	Max. thickness / diameter [mm]	Heat treatment condition ²⁾
NV A32	Section, Bar	EAF, CC	Al or Al+V	15 / 30	AR
NV A36	Section, Bar		Al+V		
NV A32, NV D32, NV A36, NV D36	Section, Bar	EAF, CC	Al+V	15 / -	AR

Remarks:

BOC: Basic oxygen converter
EAF: Electric arc furnace
CC: Continuous casting

2) AR: as rolled

³⁾ Semi-finished products from DNV approved manufacturer.

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