DNV-GL

APPROVAL OF MANUFACTURER CERTIFICATE

Certificate No: **AMMM00000A1** Revision No:

2

This is to certify:

That

Fine Besteel

Changnyeong-gun, Gyeongsangnam-do, Republic of Korea

is an approved manufacturer of **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

Steel for low temperature service

Products Sections and flat bars Manufacturing method Basic Oxygen Converter,

Continuous 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 GL classed object shall fulfill the material requirements in the applicable DNV GL class rules.

Issued at Hamburg on 2020-05-05

for **DNV GL**

This Certificate is valid until 2023-04-30.

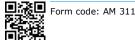
DNV GL local station: Gimhae

Approval Engineer: Stefan Röhr

Thorsten Lohmann Head of Section

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Revision: 2020-01



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Job Id: **263.11-005270-2** Certificate No: **AMMM00000A1**

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Particulars of the approval

Normal strength steel

Grade	Product	Steel making ¹⁾	Fine grain elements	Max. thickness [mm]	Heat treatment condition ²⁾
VL A	Sections	BOC, CC	-	20	AR
			Al+Nb	18	AR
VL B, VL D, VL E	Sections	BOC, CC	Al+Nb	18	AR
VL A	Flat bars	BOC, CC	-	20	AR
			Al	30	AR

High strength steel

Grade	Product	Steel making ¹⁾	Fine grain elements	Max. thickness [mm]	Heat treatment condition ²⁾
VL A32	Sections	BOC, CC	Al	18	AR
VL A32, VL A36	Sections	BOC, CC	Al+Nb	30	AR
VL A32, VL D32, VL E32, VL F32, VL A36, VL D36, VL E36, VL F36	Sections	BOC, CC	Al+Nb+V+Ti	18	ТМ
VL A32, VL A36	Flat bars	BOC, CC	Nb	20	AR
			Al+Nb	30	AR

Steel for low temperature service

Grade	Product	Steel making ¹⁾	Fine grain elements	Max. thickness [mm]	Heat treatment condition ²⁾
VL 2-4L, VL 4-4L	Sections	BOC, CC	Al+Nb+V+Ti	18	NR
				18	TM

Remarks:

1) BOC: Basic Oxygen Converter; CC: Continuous Casting

²⁾ AR: As rolled; NR: Normalising rolling; TM: Thermo-mechanical rolling

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