# APPROVAL OF MANUFACTURER CERTIFICATE

Certificate No: AMMM000018V Revision No:

1

DNV.GL

This is to certify:

## That Liberty Steel Dalzell Ltd Park Street, ML1 1PU, Motherwell, United Kingdom

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** 

Products Manufacturing method

Max. thickness Heat treatment condition Normal strength steel, High strength steel Plates See page 2 Basic oxygen converter, Continuous casting Ingot casting See page 2 See page 2 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 **2020-02-24** This Certificate is valid until **2023-03-07**. DNV GL local station: **Glasgow** 

Approval Engineer: Enno Brück

for **DNV GL** 

Thorsten Lohmann Head of Section

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Form code: AM 311

Revision: 2020-01

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 263.11-010654-1

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## Particulars of the approval

### Normal strength steel

Grade	Product	Steel making <sup>1)</sup>	Fine grain elements	Max. thickness [mm]	Heat treatment condition <sup>2)</sup>
VL A	Plate	BOC, CC	AI	50	AR
VL A, VL B, VL D	Plate	BOC, CC	AI	100	Ν

#### High strength steel

Grade	Product	Steel making <sup>1)</sup>	Fine grain elements	Max. thickness [mm]	Heat treatment condition <sup>2)</sup>
VL A32, VL A36 VL D32, VL D36	Plate	BOC, CC	AI+NB	75	Ν
		BOS, CC or IC	NI+Nb	65	N
				40	NR
		BOC, CC	AI+NB	50	NR
			Al+Nb+Ti	50	ТМ
VL E32, VL E36	Plate	BOC, CC	Al+Nb+Ti	50	ТМ
		BOC, CC or IC	AI+Nb	65	Ν

#### Remarks:

- BOC: Basic oxygen converter CC: Continuous casting IC: Ingot casting
- <sup>2)</sup> AR: as rolled NR: normalising rolling TM: thermo-mechanical rolling N: normalised