DNV-GL

APPROVAL OF MANUFACTURER CERTIFICATE

Certificate No: **AMMM00001VE**

This is to certify:

That

Liberty Merchant Bar Plc Liberty House, Scunthorpe, DN16 1XL, United Kingdom

is an approved manufacturer of **Rolled Steel Products**

in accordance with

DNV GL rules for classification – Ships DNV GL offshore standards

and the following particulars:

Application area Normal strength steel High strength steel

Product Structural sections,

Bars

Manufacturing method Basic oxygen converter or Electric ARC furnace,

Continuous casting

Max. thickness / diameter Heat treatment condition Additional approval

conditions

See page 2 As rolled 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 2017-12-14

for **DNV GL**

This Certificate is valid until 2020-11-30.

DNV GL local station: Manchester

Approval Engineer: Christian Wildhagen

Thorsten Lohmann Head of Section



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Job Id: **263.11-003593-2** Certificate No: **AMMM00001VE**

Particulars of the approval

Normal strength steel

Grade	Product	Steel making ¹⁾	Fine grain elements	Max. thickness / diameter [mm]	Delivery condition ²⁾	Z-quality
VL A	Section	BOC or EAF, CC	-	50	AR	-
	Section	BOC or EAF, CC	Al	50	AR	-
	Bar	BOC or EAF, CC	Al	50	AR	-
	Bar	BOC or EAF, CC	-	50	AR	-

High strength steel

Grade	Product	Steel making ¹⁾	Fine grain elements	Max. thickness / diameter [mm]	Delivery condition ²⁾	Z-quality
VL A32, VL A36, VL D32, VL D36	Section	BOC or EAF, CC	Al+V	50	AR	-
	Bar	BOC or EAF, CC	Al+V	50	AR	-

Steels acc. other standards³⁾⁴⁾

Grade	Product	Steel making ¹⁾	Fine grain elements	Max. thickness / diameter [mm]	Delivery condition ²⁾	Z-quality	
Steel acc. to EN 10025-2							
S235JR, S275J0, S275J2, S275JR, S355J0, S355J2, S355JR	Section	BOC or EAF, CC	Acc. standard	12	Acc. standard	-	
S235JR, S275J0, S275J2, S275JR, S355J0, S355J2, S355JR	Bar	BOC or EAF, CC	Acc. standard	50	Acc. standard	-	

Remarks:

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

2) AR: as rolled

³⁾ Certification of any material applied to classed object shall fulfil the applicable material requirements in the DNV GL class rules

Possible application and certification of any material to classed object is subject to case by case approval

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