

APPROVAL OF MANUFACTURER CERTIFICATE

Certificate No:
AMMM00000D7
Revision No:
2

This is to certify:

That

Salzgitter Flachstahl GmbH
Salzgitter, Germany

is an approved manufacturer of
Steelmaking and Rolled Steel Products

in accordance with
DNV GL rules for classification – Ships
DNVGL-OS-B101 – Metallic materials

and the following particulars:

Application area	Steelmaking
	Normal strength steel
	High strength steel
Products	Semi-finished products (slabs/blooms/billets)
	Rolled steel for structural application
	(wide strip in coils/sheets cut from wide strip)
Steel type	Carbon and Carbon-Manganese
Manufacturing method	Basic Oxygen Converter, Continuous Casting
Deoxidation	Killed
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 GL classed object shall fulfill the material requirements in the applicable DNV GL class rules.

Issued at **Hamburg** on **2019-05-07**

for **DNV GL**

This Certificate is valid until **2022-02-21**.

DNV GL local station: **Magdeburg**

Approval Engineer: **Stefan Röhr**

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Thorsten Lohmann
Head of Section



Job Id: **263.11-005225-3**
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Particulars of the approval

Semi-finished products

Steel type	Product	Steel making ¹⁾	Fine grain elements	Max. thickness [mm]	Heat treatment condition ²⁾
C and C-Mn	Slab, Bloom, Billet	BOC, IC	acc. to standard	350	AC
Hull Structural Steel grades	Slab, Bloom, Billet	BOC, IC	acc. to standard	350	AC

Normal strength steel

Grade	Product	Steel making ¹⁾	Fine grain elements	Max. thickness [mm]	Heat treatment condition ²⁾	Z-quality
VL A, VL B, VL D	Sheet, Strip (Coil)	BOC, CC	Al	16	AR	-

High strength steel

Grade	Product	Steel making ¹⁾	Fine grain elements	Max. thickness [mm]	Heat treatment condition ²⁾	Z-quality
VL A32, VL A36, VL D32, VL D36	Sheet, Strip (Coil)	BOC, CC	Al	16	AR	-

Steels acc. to other standards ³⁾

Grade	Product	Steel making ¹⁾	Fine grain elements	Max. thickness [mm]	Heat treatment condition ²⁾	Z-quality
Steel acc. to EN 10025-2						
S235JR, S235J0, S235J2, S275JR, S275J0, S275J2, S355JR, S355J0, S355J2, S355K2	Sheet, Strip (Coil)	BOC, CC	acc. to standard	16	acc. to standard	-

Remarks:

- 1) BOC: Basic Oxygen Converter; CC: Continuous Casting
- 2) AR: As rolled; AC: As cast
- 3) Possible application and certification of any material to classed object is subject to case by case approval