

APPROVAL OF MANUFACTURER CERTIFICATE

Certificate No:
AMMM000008R
Revision No:
1

This is to certify:

That
ArcelorMittal Bremen GmbH
Bremen, Germany

is an approved manufacturer of
Steelmaking and Rolled Steel Products

in accordance with
DNV GL rules for classification – Ships

and the following particulars:

Application area	Normal strength steel High strength steel
Product	Strip
Manufacturing method	Basic Oxygen Converter, Continuous Casting
Max. thickness / diameter	See page 2
Heat treatment condition	See page 2
Additional approval conditions	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 **2018-07-11**

for **DNV GL**

This Certificate is valid until **2021-06-30**.

DNV GL local station: **Bremerhaven**

Approval Engineer: **Torben Schälicke**

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Thorsten Lohmann
Head of Section



Job Id: **263.11-005465-2**
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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, VL B, VL D, VL E	Strip	CC	Al + Ti	20	CR	---

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	Strip	CC	Al + Ti	20	CR	---
VL A32, VL A36, VL D32, VL D36	Strip	CC	Al + Nb	20	TM	---

Steels acc. to other standards

Grade	Product	Steel making ¹⁾	Fine grain elements	Max. thickness / diameter [mm]	Delivery condition ²⁾	Z-quality
Steel acc. to EN 10025-2 ³⁾						
S235JR, S235J0, S235J2, S275JR, S275J0, S275J2, S355JR, S355J0, S355J2, S355K2	Strip	CC	Acc. to standard	20	Acc. to standard	---

Remarks:

- 1) CC: Continuous casting
- 2) CR: controlled rolled; TM: thermo-mechanical rolling
- 3) Certification of any material applied to classed object shall fulfil the applicable material requirements in the DNV GL class rules