

# APPROVAL OF MANUFACTURER CERTIFICATE

**This is to certify:**

**That**

**ArcelorMittal Belval & Differdange S.A.**  
**Site de Differdange**  
**Differdange, Luxembourg**

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:

<b>Application area</b>	<b>Normal strength steel</b>
	<b>High strength steel</b>
<b>Products</b>	<b>Structural sections</b>
<b>Manufacturing method</b>	<b>Electric arc furnace,</b>
	<b>Continuous casting</b>
<b>Max. thickness</b>	<b>See page 2</b>
<b>Heat treatment condition</b>	<b>See page 2</b>

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 **2021-02-12**

for **DNV GL**

This Certificate is valid until **2024-01-31**.

DNV GL local station: **Belgium**

Approval Engineer: **Christian Wildhagen**

**Thorsten Lohmann**  
**Head of Section**

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Job Id: **263.11-006198-3**  
 Certificate No: **AMMM00000MJ**  
 Revision No: **2**

## Particulars of the approval

### Normal strength steel

Grade	Product	Steel making <sup>1)</sup>	Fine grain elements	Max. thickness [mm]	Delivery condition <sup>2)</sup>	Z-quality
VL A, VL B	Section	EAF, CC	-	100	TM	-
VL D, VL E	Section	EAF, CC	Al+Nb, Al+V	100	TM	-

### High strength steel

Grade	Product	Steel making <sup>1)</sup>	Fine grain elements	Max. thickness [mm]	Delivery condition <sup>2)</sup>	Z-quality
VL A32, VL A36, VL D32, VL D36, VL E32, VL E36	Section	EAF, CC	Al+Nb, Al+V	100	TM	-

### Steels acc. other standards<sup>3)</sup>

Grade	Product	Steel making <sup>1)</sup>	Fine grain elements	Max. thickness [mm]	Delivery condition <sup>2)</sup>	Z-quality
Steel acc. to EN 10025-2						
S235JR, S235J0, S235J2, S275JR, S275J0, S275J2, S355JR, S355J0, S355J2, S355K2, and equivalent grades	Section	EAF, CC	Acc. standard	140	Acc. standard	-
Steel acc. to EN 10025-4						
S275M, S275ML, S355M, S355ML, S420M, S420ML, S460M, S460ML and equivalent grades	Section	EAF, CC	Acc. standard	140	Acc. standard	-
Steel acc. to EN 10225						
S355G11+M, S355G12+M, S355G4+M, S420G3+M, S420G4+M, S460G3+M, S460G4+M and equivalent grades	Section	EAF, CC	Acc. standard	125	Acc. standard	-

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Remarks:

- 1) EAF: Electric arc furnace  
CC: Continuous casting
- 2) TM: thermo-mechanical rolling
- 3) Possible application and certification of any material to classed object is subject to case by case approval