DNV-GL

APPROVAL OF MANUFACTURER CERTIFICATE

Certificate No: **AMMM0000MM** Revision No:

2

This is to certify:

That

ArcelorMittal Belval & Differdange S.A. Site de Rodange

Esch-sur-Alzette, 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:

Application area Normal strength steel

High strength steel Sections and bars,

Product Sections and bars,

Hot rolled steel for structural application

Heat treatment condition See pages 2, 3 Max. thickness/diam. See pages 2, 3

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 **2024-08-31**. DNV GL local station: **Belgium FIS**

Approval Engineer: Christian Wildhagen

Thorsten Lohmann Head of Section

Page 1 of 3

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Revision: 2020-01



www.dnvgl.com

Job Id: **263.11-006202-3** Certificate No: **AMMM00000MM**

Revision No: 2

Particulars of the approval

Normal strength steel

Grade	Product	Steel making ¹⁾	Fine grain elements	Dimensions [mm]	Delivery condition ²⁾	Z- quality
VL A	Section (equal and unequal leg angles)	EAF, CC	Al	L90 to L300	ТМ	-
	Square Bars	EAF, CC	Al	90 x 90 to 160 x 160	ТМ	-

High strength steel

Grade	Product	Steel making ¹⁾	Fine grain elements	Dimensions [mm]	Delivery condition ²⁾	Z- quality
VL A32, VL A36	Section (equal and unequal leg angles)	EAF, CC	AI+Nb	L90 to L300	ТМ	-
	Square Bars	EAF, CC	Al+Nb	90 x 90 to 160 x 160	ТМ	-
VL D32, VL D36, VL E36	Section (equal and unequal leg angles)	EAF, CC	Si+Nb	L90 to L300	ТМ	-
	Square Bars	EAF, CC	Si+Nb	90 x 90 to 160 x 160	ТМ	-

Steels acc. to other standards³⁾

Grade ³⁾	Product	Steel making ¹⁾	Fine grain elements	Dimensions [mm]	Delivery condition ²⁾	Z- quality	
Steel acc. to EN 10	Steel acc. to EN 10025-2						
S235JR, S235J0, S235J2, S275JR, S275J0, S275J2, S355JR, S355J0, S355J2, S355K2, S450J0	Section (Equal and unequal leg angles)	EAF, CC	Acc. standard	L90 to L300	Acc. standard	-	
S235JR, S235J0, S235J2, S275JR, S275J0, S275J2, S355JR, S355J0, S355J2, S355K2, S450J0	Square Bars	EAF, CC	Acc. standard	90 x 90 to 160 x 160	Acc. standard	-	

Steels acc. to other standards³⁾

Form code: AM 311 Revision: 2020-01 www.dnvgl.com Page 2 of 3

Job Id: **263.11-006202-3** Certificate No: **AMMM00000MM**

Revision No: 2

Grade	Product	Steel making ¹⁾	Fine grain elements	Dimensions [mm]	Delivery condition ²⁾	Z- quality		
Steel acc. to EN 10	Steel acc. to EN 10025-4							
S355M, S420M, S460M	Section (Equal and unequal leg angles)	EAF, CC	Acc. standard	L90 to L300	Acc. standard	-		
S355M, S420M, S460M	Square Bars	EAF, CC	Acc. standard	90 x 90 to 160 x 160	Acc. standard	-		
Steel acc. to EN 10025-5								
S355J0W, S355J2W	Section (Equal and unequal leg angles)	EAF, CC	Acc. standard	L90 to L300	Acc. standard	-		
Steel acc. to Customer specification								
Fritenar 355, Fritenar 355 Offshore	Section (Equal and unequal leg angles)	EAF, CC	Acc. standard	L90 to L300	Acc. standard	-		
Fritenar 355, Fritenar 355 Offshore	Square Bars	EAF, CC	Acc. standard	90 x 90 to 160 x 160	Acc. standard	-		

Remarks:

EAF: Electric arc furnace CC: Continuous casting

Steelmaking conducted by ArcelorMittal steel mills approved by DNV GL

2) TM: thermo-mechanical rolling)

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

Form code: AM 311 Revision: 2020-01 www.dnvgl.com Page 3 of 3