APPROVAL OF MANUFACTURER CERTIFICATE

Certificate No: AMMM00001M7 Revision No: 2

DNV·GL

This is to certify: That ArcelorMittal Warszawa Sp. z o.o. 132, Kasprowicza Street, 01-949 Warszawa, Poland

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	Steelmaking,
	Bars for chain cables
Products	Rolled bars intended to be machined into components,
	Bars for chain cables
Steel type	Carbon and Carbon-Manganese,
	Alloy
Manufacturing method	Electric Arc Furnace,
	Continuous Casting, Ingot Casting
Deoxidation	Killed
Fine grain elements	AI
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 2020-11-04

This Certificate is valid until **2023-10-31**. DNV GL local station: **Katowice**

Approval Engineer: Stefan Röhr

for **DNV GL**

Thorsten Lohmann Head of Section

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 263.11-011077-1

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Particulars of the approval

Rolled round bars intended to be machined into components

Steel type	Product	Steel making ¹⁾	Max. Thickness [mm]	Heat treatment condition ²⁾
C and C-Mn	Round bars	EAF, IC	150	Ν
C and C-Mn	Round bars	EAF, CC	125 ³⁾	Ν
Alloy	Round bars	EAF, IC	150	QT
Alloy	Round bars	EAF, CC	125 ³⁾	QT

Bars for chain cable

Steel type	Product	Steel making ¹⁾	Max. Thickness [mm]	Heat treatment condition ²⁾
VL K3	Round bars	EAF, IC	150	AR

Remarks:

- ¹⁾ EAF: Electric Arc Furnace; CC: Continuous Casting; IC: Ingot Casting
- ²⁾ AR: As rolled; N: Normalized; QT: Quenched and tempered
- ³⁾ Minimum rolling reduction ratio 4:1