

Certificate No : MD00/0775/0007/1

PJSC "ILYICH IRON AND STEEL WORKS OF MARIUPOL" 1 Levchenko Street Mariupol 87504 Ukraine

has been approved as a manufacturer in accordance with the requirements of Lloyd's Register for :-

Steelmaking and Plates

This approval is subject to compliance with the Rules for the Manufacture, Testing and Certification of Materials. The full details of the processes and grades to which this approval applies are given in the Appendix of this certificate.

Lloyd's Register is to be notified of any change that may affect the validity of this Certificate.

This Certificate is issued to the above manufacturer and is valid until the date given below.

Valid Until: 01 July 2019 Date of Issue: 05 January 2017

Clive Arnold
Senior Metallurgical Specialist to Lloyd's Register EMEA
A member of the Lloyd's Register group

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Appendix 1

PJSC "ILYICH IRON AND STEEL WORKS OF MARIUPOL"

1 Levchenko Street Mariupol 87504 Ukraine

Steelmaking	B.O.S. / Con Cast	Grades		
		As below		
Plates	Normal Strength	Grades	mm thickness Max	imum
As Rolled	Fine Grain Al	A, B, D		25.0
As Rolled	Killed	A		25.0
Normalizing Rolled	Fine Grain Al+Ti	A, B, D		50.0
Normalizing Rolled	Fine Grain Al	A, B, D		50.0
Thermo Mechanical	Fine Grain Al+Ti	A, B, D, E		50.0
Plates	Higher Strength	Grades	mm thickness Max	imum
As Rolled	Fine Grain Al	AH27S, AH32, AH36, DH27S, DH32, DH36		25.0
Thermo Mechanical	Fine Grain Al+V	AH27S, AH32, AH36, DH27S, DH32, DH36, DH4	40, EH27S,	25.0
		EH32, EH36, EH40		
Thermo Mechanical	Fine Grain Al+Nb+Ti	AH27S, AH32, AH36, DH27S, DH32, DH36, EH2	27S, EH32,	50.0
		EH36		
Thermo Mechanical	Fine Grain Al+V+Ti	AH27S, AH32, AH36, DH27S, DH32, DH36, EH2	27S, EH32,	50.0
		EH36		
Plates	Boiler & Pressure Vessel	Grades	mm thickness Maximum	
As Rolled	Killed	360AR, 410AR, 460AR		25.0
Normalizing Rolled	Fine Grain Al+Ti	360FG, 410FG		50.0
Normalizing Rolled	Fine Grain Al	360FG, 410FG		50.0
All grades and thicknesses with specified through thickness properties. Notation Z25 or Z35 may be added.				

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