



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

A handwritten signature in blue ink, appearing to read "Clive Arnold", written over a horizontal line.

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"
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Steelmaking	B.O.S. / Con Cast	Grades	
		As below	
Plates	Normal Strength	Grades	mm thickness Maximum
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 Maximum
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, DH40, EH27S, EH32, EH36, EH40	25.0
Thermo Mechanical	Fine Grain Al+Nb+Ti	AH27S, AH32, AH36, DH27S, DH32, DH36, EH27S, EH32, EH36	50.0
Thermo Mechanical	Fine Grain Al+V+Ti	AH27S, AH32, AH36, DH27S, DH32, DH36, EH27S, EH32, EH36	50.0
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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