



Certificate No : MD00/0351/0008/1

**INDUSTEEL FRANCE
ARCELOR MITTAL
Site de Chateauneuf
BP 368 - Chateauneuf
42803 RIVE DE GIER
France**

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 : 18 April 2020
Date of Issue : 28 April 2017**

A handwritten signature in blue ink, appearing to read "Colin Waylen", is written over a horizontal line.

Colin Waylen

Principal Specialist to Lloyd's Register EMEA
A member of the Lloyd's Register group



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Appendix 1

INDUSTEEL FRANCE
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Steelmaking	E.A.F. / Ingot	Grades	
Plates	Normal Strength	Grades	mm thickness Maximum
As Rolled	Killed	A	50.0
Normalized	Killed	A	400.0
Plates	Higher Strength	Grades	mm thickness Maximum
As Rolled	Fine Grain Al+Nb+V+Ti	DH32, DH36	25.0
As Rolled	Fine Grain Al+Nb+V+Ti	AH32, AH36	35.0
As Rolled	Fine Grain Al	DH32	25.0
As Rolled	Fine Grain Al	AH32	35.0
Normalized	Fine Grain Al+Nb+V+Ti	FH32, FH36	50.0
Normalized	Fine Grain Al+Nb+V+Ti	AH32, DH32, EH32	100.0
Normalized	Fine Grain Al+Nb+V+Ti	AH36, DH36, EH36	400.0
Normalized	Fine Grain Al	FH32	50.0
Normalized	Fine Grain Al	AH32, DH32, EH32	400.0
Plates	Boiler & Pressure Vessel	Grades	mm thickness Maximum
As Rolled	Killed	360AR, 410AR	40.0
Normalized	Fine Grain Al+Nb+V+Ti	360FG, 410FG, 460FG, 490FG, 510FG	100.0
Normalized	Fine Grain Al	360FG, 410FG, 460FG, 490FG	100.0
Normalized	Killed	360, 410	100.0
Plates	Ferritic Low Temperature	Grades	mm thickness Maximum
Normalized	Fine Grain Al+Nb+V+Ti	LTAH32, LTDH32, LTEH32, LTFH32	40.0
Normalized	Fine Grain Al+Nb+V+Ti	LTAH36, LTDH36, LTEH36, LTFH36	50.0
Normalized	Fine Grain Al	LTAH32, LTDH32, LTEH32, LTFH32, 1.5Ni	50.0
Normalized and Tempered	Fine Grain Al	3.5Ni	50.0

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Appendix 2

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Plates	Ferritic Low Temperature	Grades	mm thickness Maximum
Quenched and Tempered	Fine Grain Al	5Ni, 9Ni	50.0

Including plates with specified through thickness properties.

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