



**MATERIALS QUALITY SCHEME APPROVED
MQS 063**

Certificate No: MQ00/0235/0013/1

**LIBERTY STEEL DALZELL LIMITED
Motherwell ML1 1PU
United Kingdom**

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

Steel 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 : 17 May 2020
Date of Issue : 20 July 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
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United Kingdom**

Plates	Normal Strength	Grades	mm thickness Maximum
As Rolled	Fine Grain Al	D	35.0
As Rolled	Fine Grain Al	A, B	50.0
Normalized	Fine Grain Al	E	50.0
Normalized	Fine Grain Al	A, B, D	100.0
Plates	Higher Strength	Grades	mm thickness Maximum
Normalized	Fine Grain Al+Nb	FH32, FH36	30.0
Normalized	Fine Grain Al+Nb	AH32, AH36, DH32, DH36, EH32, EH36	75.0
Normalizing Rolled	Fine Grain Al+Nb	AH32, AH36, DH32, DH36	50.0
Thermo Mechanical	Fine Grain Al+Nb	AH32, AH36, DH32, DH36, EH32, EH36	65.0
Thermo Mechanical	Fine Grain Al+Nb+Ti	AH32, AH36, DH32, DH36, EH32, EH36	50.0

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Clive Arnold

Senior Metallurgical Specialist to Lloyd's Register EMEA
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