

Materials Quality Scheme

Manufacturer SSAB EMEA AB

Address ., Oxelosund, 613 80, Sweden

Type Steel Making
Semi-Finished Products
Plates

Scope of Approval Materials Quality Scheme Approval No. MQS 049

Steelmaking: B.O.S./Con Cast

Semi-Finished Products: Slabs, details as per Appendix.

Plates: Normal Strength, Higher Strength, Boiler & Pressure Vessel, and Ferritic Low Temperature, details as per Appendix.

All plates with specified through thickness properties: Z25 and Z35 designations.

Semi-finished products in Carbon and Carbon-Manganese steel with fine grain (element combinations as stated), slabs to 1680 mm wide, to 11000mm long of maximum weight 30T for further processing to rolled products.

Company also approved under Materials Survey Scheme, separate approval certificate applies.

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 on subsequent pages of this certificate.



71 Fenchurch Street, London, EC3M 4BS, United Kingdom

Clive Arnold

Lead Metallurgist: Metallurgical Assurance to
Lloyd's Register EMEA
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Page 2 of 6
Certificate No: LR22417870MQ
Issue Date: 01/03/2022
Expiry Date: 28/02/2025

Materials Quality Scheme

This certificate is issued to the named manufacturer, and is valid until the expiry date specified. Lloyd's Register is to be notified of any change that may affect the validity of this certificate, and reserves the right to cancel or withdraw this certificate.

Approval Notes

Previous Lloyd's Register reference No. 1282.



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Steel making	B.O.S. / Con Cast	Grades	As below	Units
-	-	As below	1.00	As below
Semi-Finished Products	Slabs	Grades	Maximum Thickness	Units
-	-	As below	286.00	mm
Plates	Normal Strength	Grades	Maximum Thickness	Units
As Rolled	Fine Grain Al	D	35.00	mm
As Rolled	Fine Grain Al	B, A	60.00	mm
Normalized	Fine Grain Al	E, D, B, A	75.00	mm
Plates	Higher Strength	Grades	Maximum Thickness	Units
Normalized	Fine Grain Al+Nb	EH36, DH36, AH36, EH32, DH32, AH32, EH27S, DH27S, AH27S	60.00	mm
Normalized	Fine Grain Al+Nb+Ti	EH32, DH32, AH32	60.00	mm
Normalized	Fine Grain Al	EH27S, DH27S, AH27S	60.00	mm
Normalizing Rolled	Fine Grain Al+V+Ti	DH36, AH36, DH32, AH32, DH27S, AH27S	50.00	mm
Normalizing Rolled	Fine Grain Al	DH27S, AH27S	50.00	mm
Quenched and Tempered	Fine Grain Al+Nb+V+Ti	FH69, EH69, DH69, AH69, FH62, EH62, DH62, AH62, FH55, EH55, DH55, AH55, FH50, EH50, DH50, AH50, FH46, EH46, DH46, AH46	80.00	mm
Quenched and Tempered	Fine Grain Al+Nb+Ti	EH42, DH42, AH42	60.00	mm
Quenched and Tempered	Fine Grain Al+Nb+Ti	EH40, DH40, AH40	60.00	mm



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Materials Quality Scheme

Quenched and Tempered	Fine Grain Al+V+Ti	FH40, EH40, FH36, FH32, EH32	70.00	mm
Quenched and Tempered	Fine Grain Al+V+Ti	FH46 , EH46, DH46, FH42, EH42, DH42	70.00	mm
Quenched and Tempered	Fine Grain Al+V+Ti	EH50 , DH50	70.00	mm
Quenched and Tempered	Fine Grain Al+V+Ti	FH50	80.00	mm
Thermo Mechanical	Fine Grain Al+Nb+V+Ti	FH36 , FH32	40.00	mm
Thermo Mechanical	Fine Grain Al+Nb+V+Ti	FH42	40.00	mm
Thermo Mechanical	Fine Grain Al+Nb+V+Ti	EH40, DH40, EH36, DH36, EH32, DH32, EH27S, DH27S	50.00	mm
Thermo Mechanical	Fine Grain Al+Nb+V+Ti	EH42 , DH42	50.00	mm
Thermo Mechanical	Fine Grain Al+Nb+V+Ti	AH40, AH36, AH32, AH27S	60.00	mm
Thermo Mechanical	Fine Grain Al+Nb+V+Ti	AH42	60.00	mm
Thermo Mechanical	Fine Grain Al+Nb+Ti	FH40, FH36, FH32, FH27S	40.00	mm
Thermo Mechanical	Fine Grain Al+Nb+Ti	EH40, DH40, EH36, DH36, EH32, DH32, EH27S, DH27S	50.00	mm
Thermo Mechanical	Fine Grain Al+Nb+Ti	AH40, AH36, AH32, AH27S	60.00	mm
Plates	Boiler and Pressure Vessel	Grades	Maximum Thickness	Units
Normalized	Fine Grain Al+Nb	510FG, 490FG, 460FG, 410FG, 360FG	60.00	mm
Normalized	Fine Grain Al+Nb+Ti	510FG, 490FG, 460FG, 410FG, 360FG	60.00	mm
Normalized	Fine Grain Al+V+Ti	510FG, 490FG, 460FG, 410FG, 360FG	60.00	mm



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Normalized	Al+Nb+Ni	460FG	60.00	mm
Normalized	Fine Grain Al	510FG, 490FG, 460FG	25.00	mm
Normalized	Fine Grain Al	410FG , 360FG	75.00	mm
Normalizing Rolled	Fine Grain Al+V+Ni	490FG, 460FG, 410FG, 360FG	40.00	mm
Normalizing Rolled	Fine Grain Al+V+Ti	510FG, 490FG, 460FG, 410FG, 360FG	50.00	mm
Plates	Ferritic Low Temperature	Grades	Maximum Thickness	Units
Normalized	Fine Grain Al+Nb	LTEH36, LTDH36, LTAH36, LTEH32, LTDH32, LTAH32, LTEH27S, LTDH27S, LTAH27S	40.00	mm
Normalized	Fine Grain Al	LTEH27S, LTDH27S, LTAH27S	40.00	mm
Normalizing Rolled	Fine Grain Al+V+Ti	LTDH36, LTAH36, LTDH32, LTAH32, LTDH27S, LTAH27S	40.00	mm
Normalizing Rolled	Fine Grain Al	LTDH27S , LTAH27S	40.00	mm
Thermo Mechanical	Fine Grain Al+Nb+V+Ti	LTEH40, LTDH40, LTAH40, LTEH36, LTDH36, LTAH36, LTEH32, LTDH32, LTAH32, LTEH27S, LTDH27S, LTAH27S	40.00	mm
Thermo Mechanical	Fine Grain Al+Nb+Ti	LTFH40, LTEH40, LTDH40, LTAH40, LTFH36, LTEH36, LTDH36, LTAH36, LTFH32, LTEH32, LTDH32, LTAH32, LTFH27S, LTAH27S	40.00	mm



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Page 6 of 6
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