



Certificate No : MD00/1638/0012/1

**EVRAZ VITKOVICE STEEL, a.s.**  
709 00 Ostrava - Hulvaky  
Stramberska c.p. 2871/47  
PSC 709 00  
Czech Republic

**MATERIALS QUALITY SCHEME APPROVED**  
**MQS 039**

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

**Steelmaking, Plates, Sections and Bars**

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 : 08 August 2010  
Date of Issue : 09 August 2007

**W Wistance**

Senior Metallurgical Specialist to Lloyd's Register EMEA  
A member of the Lloyd's Register Group

Lloyd's Register, its affiliates and subsidiaries and their respective officers, employees or agents are, individually and collectively, referred to in this clause as the 'Lloyd's Register Group'. The Lloyd's Register Group assumes no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provided, unless that person has signed a contract with the relevant Lloyd's Register Group entity for the provision of this information or advice and in that case any responsibility or liability is exclusively on the terms and





Certificate No : MD00/1638/0012/1

Appendix 1

EVRAZ VITKOVICE STEEL, a.s.  
709 00 Ostrava - Hulvaky  
Stramberska c.p. 2871/47  
PSC 709 00  
Czech Republic

Steelmaking	B.O.S. / Con Cast	Grades	
		As below	
<b>Plates</b>	<b>Normal Strength</b>	<b>Grades</b>	<b>mm thickness Maximum</b>
As Rolled	Fine Grain Al+V	B	50.0
As Rolled	Fine Grain Al	A, D	50.0
Normalized	Fine Grain Al+Nb	A, B, D, E	50.0
Normalized	Fine Grain Al+Nb+V	A, B, D, E	100.0
Normalized	Fine Grain Al+V	B	50.0
Normalized	Fine Grain Al	A, D	50.0
<b>Plates</b>	<b>Higher Strength</b>	<b>Grades</b>	<b>mm thickness Maximum</b>
Normalized	Fine Grain Al+Nb	AH27S, AH32	50.0
Normalized	Fine Grain Al+Nb+V	AH27S, AH32, AH36, DH27S, DH32, DH36, EH27S, EH32, EH36	100.0
Normalized	Fine Grain Al	AH27S, AH32, AH36, DH27S, DH32, DH36	50.0
Thermo Mechanical	Fine Grain Al+Nb	AH27S, AH32	40.0
Thermo Mechanical	Fine Grain Al+Nb+V	AH27S, AH32, AH36	40.0
<b>Plates</b>	<b>Boiler &amp; Pressure Vessel</b>	<b>Grades</b>	<b>mm thickness Maximum</b>
Normalized	Fine Grain Al+Nb	360FG, 410FG, 460FG	50.0
Normalized	Fine Grain Al+Nb+V	360FG, 410FG, 460FG, 490FG, 510FG	100.0
Normalized	Fine Grain Al+Nb+V+Ti	490FG, 510FG	50.0
Normalized	Fine Grain Al	360FG, 410FG, 460FG, 490FG, 510FG	50.0
<b>Sections</b>	<b>Normal Strength</b>	<b>Grades</b>	<b>mm thickness Maximum</b>
As Rolled	Fine Grain Al+Nb+V	E	16.0
As Rolled	Fine Grain Al+V	B	16.0
As Rolled	Fine Grain Al	A, D	16.0

Valid Until : 08 August 2010

Date of Issue : 09 August 2007

*W. Wistance*

**W Wistance**

Senior Metallurgical Specialist to Lloyd's Register EMEA  
A member of the Lloyd's Register Group





Certificate No : MD00/1638/0012/1

Appendix 2

EVRAZ VITKOVICE STEEL, a.s.

709 00 Ostrava - Hulvaky

Stramberska c.p. 2871/47

PSC 709 00

Czech Republic

Sections	Higher Strength	Grades	mm thickness Maximum
As Rolled	Fine Grain Al+Nb	AH27S, AH32	16.0
As Rolled	Fine Grain Al+Nb+V	AH36, DH36, EH27S, EH32, EH36	16.0
As Rolled	Fine Grain Al	DH27S, DH32	16.0
Bars	Normal Strength	Grades	mm thickness Maximum
As Rolled	Fine Grain Al+Nb+V	E	50.0
As Rolled	Fine Grain Al+V	B	50.0
As Rolled	Fine Grain Al	A, D	50.0
Bars	Higher Strength	Grades	mm thickness Maximum
As Rolled	Fine Grain Al+Nb	AH27S, AH32	50.0
As Rolled	Fine Grain Al+Nb+V	AH36, DH36	50.0
As Rolled	Fine Grain Al	DH27S, DH32	50.0

The maximum plate thickness manufactured by con-cast route is 70 mm.

Approved for OXYVIT Steel Making Process.

Approved for plates with specified through thickness properties (Z35) in all grades up to 50 mm thickness.

Materials Quality Scheme Approved - MQS 039

Valid Until : 08 August 2010

Date of Issue : 09 August 2007

**W Wistance**

Senior Metallurgical Specialist to Lloyd's Register EMEA  
A member of the Lloyd's Register Group

Lloyd's Register, its affiliates and subsidiaries and their respective officers, employees or agents are, individually and collectively, referred to in this clause as the 'Lloyd's Register Group'. The Lloyd's Register Group assumes no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provided, unless that person has signed a contract with the relevant Lloyd's Register Group entity

