

List 1 Steel Plates, Strip, Sections & Bars

то	LR Shanghai Port	DATE 23 August 2011 YOUR REF SHI1140003
FROM	Materials and NDE	OUR REF MAT/M3489/CT/6378608
SUBJECT	Notice of approval BAOSHAN IRON & STEEL CO., LTD. Core Base Plate Line No. 2 No. 777 North Wenchuan Road Baoshan District Shanghai 200949 China, People's Republic of	

- 1. Reference is made to your email dated 22nd August 2011.
- 2. In view of the satisfactory nature of the Materials Quality Scheme audit of Baoshan Iron & Steel Co. Ltd., Core Base Plate Line No.2, the company is now authorised to operate under this scheme.
- 3. Please find enclosed a Materials Quality Scheme Certificate for onward transmission to the firm. Also enclosed is a renewed Lloyd's Register Works Approval Certificate and a copy of the firm's scope of approval. Should you require a copy of the Certificates for your own files, photocopies of the originals may be taken. A summary of the company details will appear in the next CDIive publication and you should therefore ensure that it is accurate
- 5. It should be noted that if at some future date the firm wish to increase the size or alter the grade or the supply condition outside the scope of approval, procedure tests, in accordance with the appropriate Materials and Qualification Procedure will be required to be carried out.
- 7. The Lists are now on the Internet. Please direct the client to www.cdlive.lr.org to look under Approved Lists. This approval information should be available within the next 30 days.

Reported by:

Clive Tuck

Senior Metallurgical Specialist

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то	LR Shanghai Port			August 2011	
			YOUR REF		
FROM	Materials and NDE	OUR REF MAT/M3489/CDT/			
SUBJECT	Scope of Approval BAOSHAN IRON & STEEL CO., LTD. Core Base Plate Line No. 2 No. 777 North Wenchuan Road Baoshan District Shanghai 200949 China, People's Republic of				
MAKE OF APPROVED TE	STING MACHINE	TYPE	MACHINE NUMBER	CAPACITY	UNIT
SHENZEN		Tensile	313605M01	100	kN
SHENZEN		Tensile	313606M01	300	kN
SHENZEN		Tensile	313607M01	600	kN
SHENZEN		Tensile	313611M01	1000	kN
SHENZEN		Tensile	313609M01	1000	kN
SHENZEN		Tensile	313610M01	2000	kN
SHNAGHAI HUALONG		Impact	131614M01	300	Joules
SHANGHAI HUALONG		Impact	313615M01	300	Joules
SHANGHAI HUALONG SHENZHEN		Tensile	313616M01	300	Joules
SHENZHEN		Impact Impact	31317M01 313618M01	300 300	Joules
SHENZHEN		Tensile	313619M01	450	Joules Joules
Steelmaking	B.O.S. / Con Cast	Grades			004100
otecimating	B.O.O. / CON Gust	As below			
Semi-Finished Products	Slabs	Grades		mm thic	kness Maximur
As cast	Fine Grain Al+Ti	carbon, carbon	manganese		250
As cast	Fine Grain Al+Nb+Ti	carbon, carbon	-manganese		250
Plates	Normal Strength	Grades		mm thic	kness Maximur
As Rolled	Fine Grain Al+Ti	D			35
As Rolled	Fine Grain Al+Ti	A, B			50
Normalized	Fine Grain Al+Nb+Ti	A, B, D, E			60
TM+Acc	Fine Grain Al+Nb+Ti	A, B, D, E			50
Thermo Mechanical	Fine Grain Al+Nb+Ti	A, B, D, E			20
Plates	Higher Strength	Grades		mm thic	kness Maximui
As Rolled	Fine Grain Al+Ti	AH27S, AH32,	AH36, DH27S, DH32, DH36	5	20
Normalized	Fine Grain Al+Nb+Ti	AH27S, AH32, EH36	AH36, DH27S, DH32, DH36	3, EH27S, EH32,	50.
Normalizing Rolled	Fine Grain Al+Ti	AH27S, AH32			35
Normalizing Rolled	Fine Grain Al+Nb+Ti	AH27S, AH32,	AH36, DH27\$, DH32, DH36	3	40
TM+Acc	Fine Grain Al+Nb+Ti	AH27S, AH32, EH36	AH36, DH27S, DH32, DH36	6, EH27S, EH32,	50
Thermo Mechanical	Fine Grain Al+Nb+Ti	AH27S, AH32, EH36	AH36, DH27S, DH32, DH36	8, EH27S, EH32,	20.
Plates	Boiler & Pressure Vessel	Grades		mm thick	kness Maximun
Normalized	Fine Grain Al+Ti	360FG, 410FG,	460FG, 490FG, 510FG		20.
Normalized	Fine Grain Al+Nb+Ti	460FG, 490FG,	510FG		50.
Normalized	Fine Grain Al+Nb+Ti	360FG, 410FG			60.
Normalizing Rolled	Fine Grain Al+Ti	360FG, 410FG,	460FG, 490FG		35.
~			,		00.

360FG, 410FG, 460FG, 490FG, 510FG

360FG, 410FG, 460FG, 490FG, 510FG

TM+Acc

Normalizing Rolled

Fine Grain Al+Nb+Ti

Fine Grain Al+Nb+Ti

40.0

50.0

List 1 Steel Plates, Strip, Sections & Bars



ТО	LR Shanghai Port	DATE 23 August 2011
		YOUR REF
FROM	Materials and NDE	OUR REF MAT/M3489/CDT/

PlatesBoiler & Pressure VesselGradesmm thickness MaximumThermo MechanicalFine Grain Al+Nb+Ti360FG, 410FG, 480FG, 490FG, 510FG20.0

Semi-finished products in carbon, carbon-manganese fine grain (element combinations as stated, slabs to 2300mm wide, to 12000mm long to 54 tonnes for further processing to rolled products

Z25 & Z35 designations made be added for plates up to 35mm thick produced in the as rolled condition from concast slab for grades A, B and D with specified through thickness properties

Z25 & Z35 designations made be added for plates with specified through thickness properties for the approved grades in the normalised condition, normalised condition, TM condition and TM +Acc condition

Z25 & Z35 designations made be added for plates up to 40mm thick produced in the normalised rolled condition from concast slab for grades DH36 and DH32 with specified through thickness properties

Materials Quality Scheme Approved - MQS 051

The registered company address of Core Base Plate Line No. 2 is No. 885, Fujin Road Baoshan District, 201900, Shanghai, P.R China



BAOSHAN IRON & STEEL CO., LTD.
Core Base Plate Line No. 2
No. 777 North Wenchuan Road
Baoshan District
Shanghai 200949
China, People's Republic of

MATERIALS QUALITY SCHEME APPROVED MQS 051

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

Steelmaking, Semi-Finished Products 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: 15 December 2014 Date of Issue: 23 June 2011

Clive D S Tuck





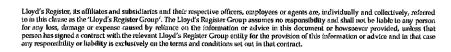
Appendix 1

BAOSHAN IRON & STEEL CO., LTD.
Core Base Plate Line No. 2
No. 777 North Wenchuan Road
Baoshan District
Shanghai 200949
China, People's Republic of

Steelmaking	B.O.S. / Con Cast	Grades	
		As below	
Semi-Finished Products	Slabs	Grades	mm thickness Maximum
As cast	Fine Grain Al+Ti	carbon, carbon-manganese	250.0
As cast	Fine Grain Al+Nb+Ti	carbon, carbon-manganese	250.0
Plates	Normal Strength	Grades	mm thickness Maximum
As Rolled	Fine Grain Al+Ti	D	35.0
As Rolled	Fine Grain Al+Ti	A, B	50.0
Normalized	Fine Grain Al+Nb+Ti	A, B, D, E	60.0
TM+Acc	Fine Grain Al+Nb+Ti	A, B, D, E	50.0
Thermo Mechanical	Fine Grain Al+Nb+Ti	A, B, D, E	20.0
Plates	Higher Strength	Grades	mm thickness Maximum
As Rolled	Fine Grain Al+Ti	AH27S, AH32, AH36, DH27S, DH32, DH36	20.0
Normalized	Fine Grain Al+Nb+Ti	AH27S, AH32, AH36, DH27S, DH32, DH36, EH27S	, EH32, 50.0
		EH36	,
Normalizing Rolled	Fine Grain Al+Ti	AH27S, AH32	35.0
Normalizing Rolled	Fine Grain Al+Nb+Ti	AH27S, AH32, AH36, DH27S, DH32, DH36	40.0
TM+Acc	Fine Grain Al+Nb+Ti	AH27S, AH32, AH36, DH27S, DH32, DH36, EH27S	, EH32, 50.0
		EH36	
Thermo Mechanical	Fine Grain Al+Nb+Ti	AH27S, AH32, AH36, DH27S, DH32, DH36, EH27S	, EH32, 20.0
		EH36	
Plates	Boiler & Pressure Vessel	Grades	mm thickness Maximum
Normalized	Fine Grain Al+Ti	360FG, 410FG, 460FG, 490FG, 510FG	20.0
Normalized	Fine Grain Al+Nb+Ti	460FG, 490FG, 510FG	50.0
Normalized	Fine Grain Al+Nb+Ti	360FG, 410FG	60.0

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Certificate No : MD00/3489/0007/1
Appendix 2
BAOSHAN IRON & STEEL CO., LTD.
Core Base Plate Line No. 2
No. 777 North Wenchuan Road
Baoshan District
Shanghai 200949
China, People's Republic of

Plates	Boiler & Pressure Vessel	Grades	mm thickness Maximum
Normalizing Roiled	Fine Grain Al+Ti	360FG, 410FG, 460FG, 490FG	35.0
Normalizing Rolled	Fine Grain Al+Nb+Ti	360FG, 410FG, 460FG, 490FG, 510FG	40.0
TM+Acc	Fine Grain Al+Nb+Ti	360FG, 410FG, 460FG, 490FG, 510FG	50.0
Thermo Mechanical	Fine'Grain Al+Nb+Ti	360FG, 410FG, 460FG, 490FG, 510FG	20.0

Semi-finished products in carbon, carbon-manganese fine grain (element combinations as stated, slabs to 2300mm wide, to 12000mm long to 54 tonnes for further processing to rolled products

Z25 & Z35 designations made be added for plates up to 35mm thick produced in the as rolled condition from concast slab for grades A, B and D with specified through thickness properties

Z25 & Z35 designations made be added for plates with specified through thickness properties for the approved grades in the normalised condition, normalised rolled condition, TM condition and TM +Acc condition

Z25 & Z35 designations made be added for plates up to 40mm thick produced in the normalised rolled condition from concast slab for grades DH36 and DH32 with specified through thickness properties

Materials Quality Scheme Approved - MQS 051

The registered company address of Core Base Plate Line No. 2 is No. 885, Fujin Road Baoshan District, 201900, Shanghai, P.R China

Valid Until: 15 December 2014 Date of Issue: 23 June 2011

Clive D S Tuck





BAOSHAN IRON & STEEL CO., LTD.
Core Base Plate Line No. 2
No. 777 North Wenchuan Road
Baoshan District
Shanghai 200949
China, People's Republic of

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

Steelmaking, Semi-Finished Products and Plates

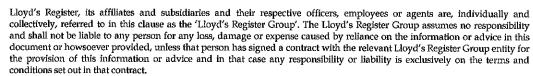
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Clive D S Tuck







Appendix 1

BAOSHAN IRON & STEEL CO., LTD.

Core Base Plate Line No. 2 No. 777 North Wenchuan Road Baoshan District Shanghai 200949

China, People's Republic of

Steelmaking	B.O.S. / Con Cast	Grades	
		As below	
Semi-Finished Products	Slabs	Grades	mm thickness Maximum
As cast	Fine Grain Al+Ti	carbon, carbon-manganese	250.0
As cast	Fine Grain Al+Nb+Ti	carbon, carbon-manganese	250.0
Plates	Normal Strength	Grades	mm thickness Maximum
As Rolled	Fine Grain Al+Ti	D	35.0
As Rolled	Fine Grain Al+Ti	A, B	50.0
Normalized	Fine Grain Al+Nb+Ti	A, B, D, E	60.0
TM+Acc	Fine Grain Al+Nb+Ti	A, B, D, E	50.0
Thermo Mechanical	Fine Grain Al+Nb+Ti	A, B, D, E	20.0
Plates	Higher Strength	Grades	mm thickness Maximum
As Rolled	Fine Grain Al+Ti	AH27S, AH32, AH36, DH27S, DH32, DH36	20.0
Normalized	Fine Grain Al+Nb+Ti	AH27S, AH32, AH36, DH27S, DH32, DH36, EH27	S, EH32, 50.0
		EH36	
Normalizing Rolled	Fine Grain Al+Ti	AH27S, AH32	35.0
Normalizing Rolled	Fine Grain Al+Nb+Ti	AH27S, AH32, AH36, DH27S, DH32, DH36	40.0
TM+Acc	Fine Grain Al+Nb+Ti	AH27S, AH32, AH36, DH27S, DH32, DH36, EH27	S, EH32, 50.0
		EH36	
Thermo Mechanical	Fine Grain Al+Nb+Ti	AH27S, AH32, AH36, DH27S, DH32, DH36, EH275 EH36	S, EH32, 20.0
Plates	Boiler & Pressure Vessel	Grades	mm thickness Maximum
Normalized	Fine Grain Al+Ti	360FG, 410FG, 460FG, 490FG, 510FG	20.0
Normalized	Fine Grain Al+Nb+Ti	460FG, 490FG, 510FG	50.0
Normalized	Fine Grain Al+Nb+Ti	360FG, 410FG	60.0

Valid Until: 15 December 2014 Date of Issue: 23 June 2011

Clive D S Tuck

Ine DS. Tuck

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 conditions set out in that contract.





Appendix 2

BAOSHAN IRON & STEEL CO., LTD.
Core Base Plate Line No. 2
No. 777 North Wenchuan Road
Baoshan District
Shanghai 200949
China, People's Republic of

Plates	Boiler & Pressure Vessel	Grades	mm thickness Maximum
Normalizing Rolled	Fine Grain Al+Ti	360FG, 410FG, 460FG, 490FG	35.0
Normalizing Rolled	Fine Grain Al+Nb+Ti	360FG, 410FG, 460FG, 490FG, 510FG	40.0
TM+Acc	Fine Grain Al+Nb+Ti	360FG, 410FG, 460FG, 490FG, 510FG	50.0
Thermo Mechanical	Fine Grain Al+Nb+Ti	360FG, 410FG, 460FG, 490FG, 510FG	20.0
Sami finished products in carbon parhan manageness fine argin (element combinations as stated, slabe to 2200mm wide to 42000mm			

Semi-finished products in carbon, carbon-manganese fine grain (element combinations as stated, slabs to 2300mm wide, to 12000mm long to 54 tonnes for further processing to rolled products

Z25 & Z35 designations made be added for plates up to 35mm thick produced in the as rolled condition from concast slab for grades A, B and D with specified through thickness properties

Z25 & Z35 designations made be added for plates with specified through thickness properties for the approved grades in the normalised condition, normalised rolled condition, TM condition and TM +Acc condition

Z25 & Z35 designations made be added for plates up to 40mm thick produced in the normalised rolled condition from concast slab for grades DH36 and DH32 with specified through thickness properties

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