



DNV BUSINESS ASSURANCE

CERTIFICATE OF COMPLIANCE

Certificate No. 148482-2014-PC-RGC-DNV

It is hereby certified that the firm

Jiangsu Shagang Group Co., Ltd.

Jinfeng Town
Zhangjiagang City, Jiangsu Province,
P.R China

is approved manufacturer of

Steelmaking and Steel Rolled Plates

in accordance with

NORSOK Standard M-120 Edition 5-2008

In the range given overleaf

Place and date:

Shanghai, 20 December 2013

This Certificate is valid until:

19 December 2016

for DNV CERTIFICATION (CHINA) CO., LTD.

Zhang Qing Ping
Certification Manager

Sean Lee
Technical Reviewer

Lack of fulfilment of conditions as set out in the Certification Agreement may render this Certificate invalid.

Local Registration Address: 9F, No.1591 Hongqiao Road, Shanghai, P. R. China

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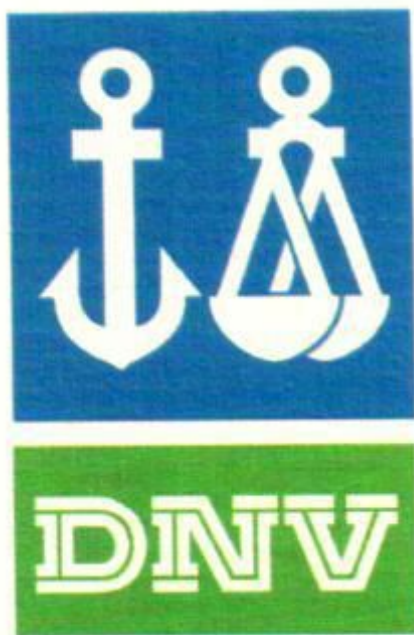
Cert. No.: 148482-2014-PC-RGC-DNV
Rev. No.: 0.0
Project No.: PRJC-494417-2013-AST-CHN

Certificate history

Revision	Description	Issue Date
-	Original certificate	2013-12-20

Product: Plate
Grade: Structural Steel

Grade of Material	Steelmaking ¹⁾	Fine Grain Treatment	Delivery Condition ²⁾	Max.Thickness (mm)	Z-quality
S235JR Y01	BOC,CC	Al	AR	25	-
S275JR Y02	BOC,CC	Al+Ti	CR	25	-
S355J0 Y04	BOC,CC	Al+Nb+Ti	TM	25	-
S355J2 Y05	BOC,CC	Al+Nb+Ti	TM	50	-
S355K2 Y05	BOC,CC	Al+Nb+Ti	TM	50	-
S420ML Y15	BOC,CC	Al+Nb+Ti	TM	50	-
S355G9+M Y25	BOC,CC	Al+Nb+Ti	TM	60	-
S355G9+N Y25	BOC,CC	Al+Nb+Ti	N	100	-
S355G10+M Y20	BOC,CC	Al+Nb+Ti	TM	60	Z35
S355G10+N Y20	BOC,CC	Al+Nb+Ti	N	100	Z35
S420G1+M Y35	BOC,CC	Al+Nb+Ti	TM	40	-
S420G1+QT Y35	BOC,CC	Al+Nb+Ti	QT	100	-
S420G2+M Y30	BOC,CC	Al+Nb+Ti	TM	40	Z35
S420G2+QT Y30	BOC,CC	Al+Nb+Ti	QT	100	Z35
S460G1+M Y45	BOC,CC	Al+Nb+Ti	TM	40	-
S460G1+QT Y45	BOC,CC	Al+Nb+Ti	QT	100	-
S460G2+M Y40	BOC,CC	Al+Nb+Ti	TM	40	Z35
S460G2+QT Y40	BOC,CC	Al+Nb+Ti	QT	100	Z35

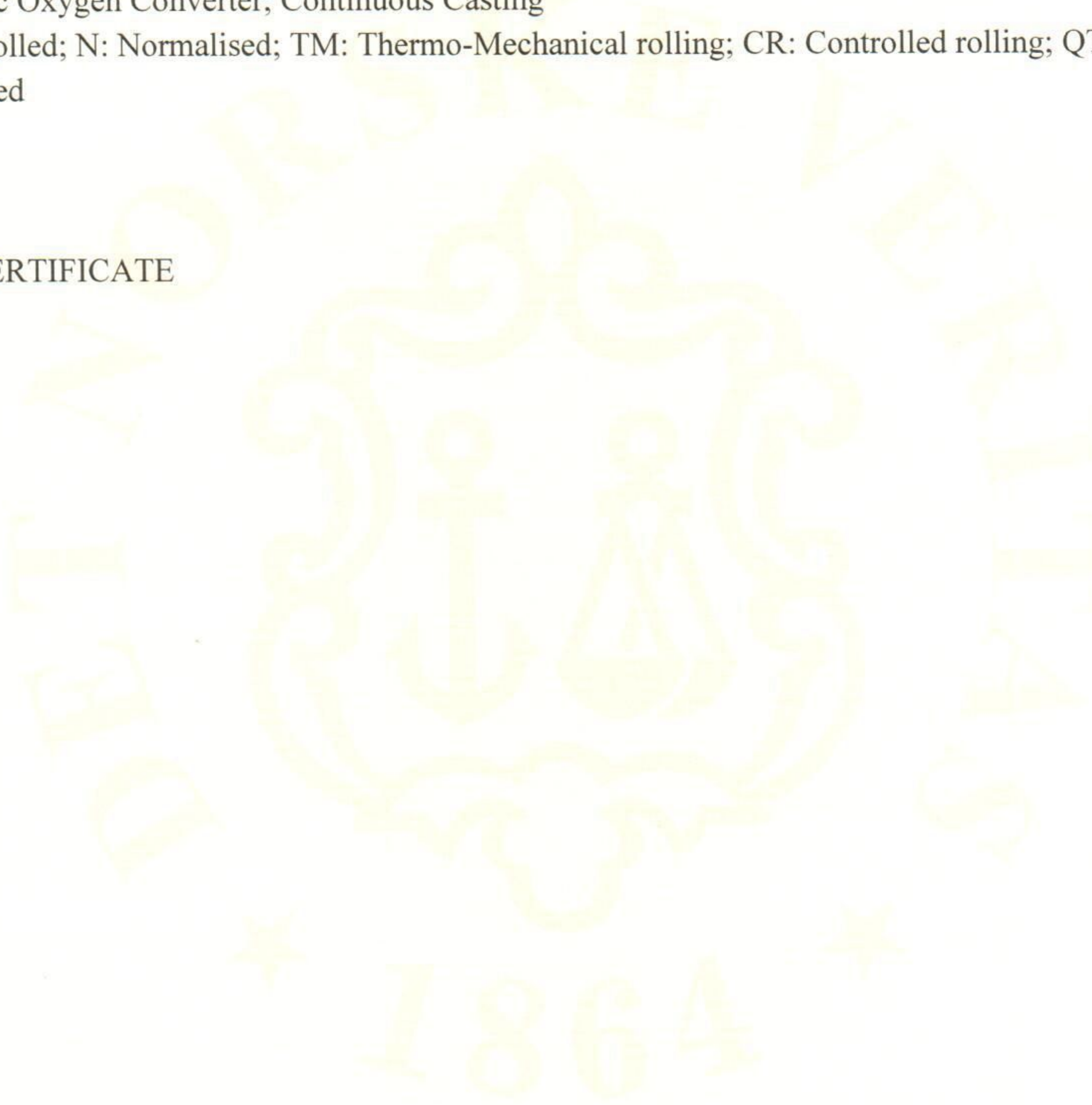


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S500G1+M Y55	BOC,CC	Al+Nb+Ti	TM	40	-
S500G1+QT Y55	BOC,CC	Al+Nb+Ti	QT	100	-
S500G2+M Y50	BOC,CC	Al+Nb+Ti	TM	40	Z35
S500G2+QT Y50	BOC,CC	Al+Nb+Ti	QT	100	Z35

Remarks:
1) BOC:Basic Oxygen Converter; Continuous Casting
2) AR: As Rolled; N: Normalised; TM: Thermo-Mechanical rolling; CR: Controlled rolling; QT: Quenched and Tempered

END OF CERTIFICATE





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EN 10225-2009

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Project No.: PRJC-494417-2013-AST-CHN

Certificate history

Revision	Description	Issue Date
-	Original certificate	2013-12-20

Product: Plate

Grade: Weldable structural Steel for fixed offshore structures

Grade of Material	Steelmaking ¹⁾	Fine Grain Treatment	Delivery Condition ²⁾	Range of Thickness(mm)	Z-quality
S355G2+N	BOC,CC	Al+Ti	N	20	-
S355G3+N	BOC,CC	Al+Ti	N	40	-
S355G5+M	BOC,CC	Al+Nb+Ti	TM	20	-
S355G6+M	BOC,CC	Al+Nb+Ti	TM	40	-
S355G7+M	BOC,CC	Al+Nb+Ti	TM	60	-
S355G7+N	BOC,CC	Al+Nb+Ti	N	100	-
S355G8+M	BOC,CC	Al+Nb+Ti	TM	60	-
S355G8+N	BOC,CC	Al+Nb+Ti	N	100	-
S355G9+M	BOC,CC	Al+Nb+Ti	TM	60	-
S355G9+N	BOC,CC	Al+Nb+Ti	N	100	-
S355G10+M	BOC,CC	Al+Nb+Ti	TM	60	Z35
S355G10+N	BOC,CC	Al+Nb+Ti	N	100	Z35
S420G1+M	BOC,CC	Al+Nb+Ti	TM	40	-
S420G1+QT	BOC,CC	Al+Nb+Ti	QT	100	-
S420G2+M	BOC,CC	Al+Nb+Ti	TM	40	Z35
S420G2+QT	BOC,CC	Al+Nb+Ti	QT	100	Z35
S460G1+M	BOC,CC	Al+Nb+Ti	TM	40	-
S460G1+QT	BOC,CC	Al+Nb+Ti	QT	100	-
S460G2+M	BOC,CC	Al+Nb+Ti	TM	40	Z35
S460G2+QT	BOC,CC	Al+Nb+Ti	QT	100	Z35

Remarks:

¹⁾ BOC: Basic Oxygen Converter; Continuous Casting

²⁾ N: Normalised; TM: Thermo-Mechanical rolling; QT: Quenched and Tempered

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