



# MATERIAL MANUFACTURER CERTIFICATE

Certificate No.:  
12823-2018-PC-RGC-DNV GL

Initial date:  
29th June 2018

Valid Until:  
28<sup>th</sup> June 2024

This certificate consists of 3 pages

This is to certify that the products(s)

**Plates**

with name and/or type designation(s)

Weldable Structural Steels

Manufactured by

**Jiangsu Shagang Group Co., Ltd.**

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

has, on a voluntary basis, been assessed with respect to

**the requirements specified in EN 10225-1:2019**

and found to comply with the standard.

*Applications/Limitations: See page 2.*

Further details are given overleaf

Place and date:  
Shanghai, 2022-04-29

For the issuing office  
**DNV Business Assurance (China)  
Co.,Ltd.**

Guo Hua  
Technical Reviewer



Certificate No.: 12823-2018-PC-RGC-DNV GL  
Place and date: Shanghai, 29<sup>th</sup> April 2022  
Revision No: 1.0

## Certificate history

Revision	Description	Issue Date
0.0	Original Certificate	2018-06-29
1.0	Renewal certificate	2022-04-29

## Products covered by this Certificate

Grade of Material	Steelmaking <sup>1)</sup>	Fine Grain Treatment	Delivery Condition <sup>2)</sup>	Max. Thickness (mm)	Z-quality
S355MLO	BOC,CC	Al+Nb+Ti	M	80	Z35
S355NLO	BOC,CC	Al+Nb+Ti	N	100	Z35
S420MLO	BOC,CC	Al+Nb+Ti	M	80	Z35
S420QLO	BOC,CC	Al+Nb+Ti	QT	100	Z35
S460MLO	BOC,CC	Al+Nb+V+Ti	M	80	Z35
S460QLO	BOC,CC	Al+Nb+V+Ti	QT	100	Z35

Remarks:

<sup>1)</sup> BOC, CC: Basic Oxygen Converter; Continuous Casting

<sup>2)</sup> N: Normalised; M: Thermomechanical rolling; QT: Quenching and Tempering

## Site covered by this Certificate

Site Name	Address	Date	Report ref.
Jiangsu Shagang Group Co., Ltd.	Jinfeng Town, Zhangjiagang, Jiangsu Province, P.R.China.	Oct, 2021	Type test report No.TP2110PG-01 rev.01

## Applications/Limitations

1. This Material Manufacturer Certificate does not exempt any purchaser from his responsibility to ensure that this qualification is valid for his products within the requirements of EN 10225-1.
2. Samples for production testing shall realistically reflect the properties in the actual plates as per material standard/specification and purchaser requirements.
3. The re-qualification process shall be repeated if any change is made to essential variable, E.g. change in the forming process and a major change of manufacturing equipment, etc.
4. If production is carried out at different plants/locations, a separate qualification is required for each plant. The also applies to change of in-house to subcontractors or change of subcontractor for essential operations. E.g. heat treatment, etc.



Certificate No.: 12823-2018-PC-RGC-DNV GL  
Place and date: Shanghai, 29<sup>th</sup> April 2022  
Revision No: 1.0

## Terms and conditions

This Certificate is subject to the following terms and conditions:

- Product liability rests with Manufacturer in case of damages caused by defective products.
- The Certificate is only valid for the product(s) listed above.
- Manufacturer shall inform the local DNV office for any changes made with respect to the qualification and a visit to the manufacturer may be made when deemed necessary.

The following may render this Certificate invalid:

- Any deviation to application/limitation listed above.
- Changes in the manufacturing of the products.
- Changes or amendments to the referenced standard and manufacturing summary.

END OF CERTIFICATE





# MATERIAL MANUFACTURER CERTIFICATE

Certificate No.:  
12824-2018-PC-RGC-DNV GL

Initial date:  
29th June 2018

Valid Until:  
28<sup>th</sup> June 2024

This certificate consists of 3 pages

This is to certify that the products(s)

**Plates**

with name and/or type designation(s)

Weldable Structural Steels

Manufactured by

**Jiangsu Shagang Group Co., Ltd.**

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

has, on a voluntary basis, been assessed with respect to

**the requirements specified in Norsok M-120:2021**

and found to comply with the standard.

*Applications/Limitations: See page 2.*

Further details are given overleaf

Place and date:  
Shanghai, 2022-04-29

For the issuing office  
**DNV Business Assurance (China)  
Co.,Ltd.**

Guo Hua  
Technical Reviewer

### Certificate history

Revision	Description	Issue Date
0.0	Original Certificate	2018-06-29
1.0	Renewal certificate	2022-04-29

### Products covered by this Certificate

Grade of Material	MDS	Steelmaking <sup>1)</sup>	Fine Grain Treatment	Delivery Condition <sup>2)</sup>	Max. Thickness (mm)	Z-quality
S355MLO	MDS Y20&Y25	BOC,CC	Al+Nb+Ti	M	80	Z35
S355NLO	MDS Y20&Y25	BOC,CC	Al+Nb+Ti	N	100	Z35
S420MLO	MDS Y30&Y35	BOC,CC	Al+Nb+Ti	M	80	Z35
S420QLO	MDS Y30&Y35	BOC,CC	Al+Nb+Ti	QT	100	Z35
S460MLO	MDS Y40&Y35	BOC,CC	Al+Nb+V+Ti	M	80	Z35
S460QLO	MDS Y40&Y35	BOC,CC	Al+Nb+V+Ti	QT	100	Z35
S235JR	MDS Y01	BOC,CC	Al	AR	25	-
S355J0	MDS Y04	BOC,CC	Al+Nb+Ti	M	25	-
S355J2	MDS Y05	BOC,CC	Al+Nb+Ti	M	50	-
S355K2	MDS Y05	BOC,CC	Al+Nb+Ti	M	50	-
S420ML	MDS Y15	BOC,CC	Al+Nb+Ti	M	50	-

Remarks:

<sup>1)</sup> BOC, CC: Basic Oxygen Converter; Continuous Casting

<sup>2)</sup> N: Normalised; M: Thermomechanical rolling; QT: Quenching and Tempering; AR: As rolled; CR: Controlled rolling.

### Site covered by this Certificate

Site Name	Address	Date	Report ref.
Jiangsu Shagang Group Co., Ltd.	Jinfeng Town, Zhangjiagang, Jiangsu Province, P.R.China.	Oct, 2021	Type test report No.TP2110PG-01 rev.01 IRISAC211215 Rev.01 IRISAC220103 Rev.01

### Applications/Limitations

1. This Material Manufacturer Certificate does not exempt any purchaser from his responsibility to ensure that this qualification is valid for his products within the requirements of NORSOK M-120.
2. Samples for production testing shall realistically reflect the properties in the actual plates as per material standard/specification and purchaser requirements.
3. The re-qualification process shall be repeated if any change is made to essential variable, E.g. change in the forming process and a major change of manufacturing equipment, etc.
4. If production is carried out at different plants/locations, a separate qualification is required for each plant. The also applies to change of in-house to subcontractors or change of subcontractor for essential operations. E.g. heat treatment, etc.



Certificate No.: 12824-2018-PC-RGC-DNV GL  
Place and date: Shanghai, 29<sup>th</sup> April 2022  
Revision No: 1.0

## Terms and conditions

This Certificate is subject to the following terms and conditions:

- Product liability rests with Manufacturer in case of damages caused by defective products.
- The Certificate is only valid for the product(s) listed above.
- Manufacturer shall inform the local DNV office for any changes made with respect to the qualification and a visit to the manufacturer may be made when deemed necessary.

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END OF CERTIFICATE

