



**DNV**

# DET NORSKE VERITAS

## APPROVAL OF MANUFACTURER CERTIFICATE

CERTIFICATE NO. AMM-5368

*This is to certify that*

**Medium Plate Mill of Medium & Heavy Plate  
Plant of Angang Steel Co., Ltd**  
Anshan, Liaoning 114021, China

*is an approved manufacturer of*  
**Rolled Steel Products**

*in accordance with*  
Det Norske Veritas' Rules for Classification Pt. 2  
Offshore Standard DNV-OS-B101

*and the following particulars:*

Product	Plates and slabs
Grades	NV A, NV B, NV D, NV A32, NV D32, NV A36, NV D36
Steelmaking	Basic oxygen converter, continuous casting
Deoxidation	Killed
Fine grain elements	See page 2
Delivery conditions	See page 2
Max. thickness	See page 2

*Place and date*  
Høvik, 2011-10-12  
for DET NORSKE VERITAS AS

Astrid Holmsen Kjesbu  
*Head of Section*



*Local Office*  
DNV Dalian

*This Certificate is valid until*  
2015-06-30

Dechun Lou  
*Surveyor*

If any person suffers loss or damage which is proved to have been caused by any negligent act or omission of Det Norske Veritas, then Det Norske Veritas shall pay compensation to such person for his proved direct loss or damage. However, the compensation shall not exceed an amount equal to ten times the fee charged for the service in question, provided that the maximum compensation shall never exceed USD 2 million. In this provision "Det Norske Veritas" shall mean the Foundation, Det Norske Veritas as well as all its subsidiaries, directors, officers, employees, agents and any other acting on behalf of Det Norske Veritas.

**Particulars of the approval:**

<i>Normal Strength Steels:</i>					
Grade or type	Steelmaking <sup>1)</sup>	Fine grain treatment	Delivery condition <sup>2)</sup>	Max. Thickness (mm)	Z-quality
NV A, NV B	BOC; CC	-	AR	20	-
		Al	AR	40	-
NV D	BOC; CC	Al	TM	40	-
<i>High Strength Steels:</i>					
Grade or type	Steelmaking <sup>1)</sup>	Fine grain treatment	Delivery condition <sup>2)</sup>	Max. Thickness (mm)	Z-quality
NV A32, NV D32, NV A36, NV D36	BOC; CC	Al, Nb, V	TM	40	-

## Remarks:

- 1) BOC: Basic Oxygen Converter; CC: Continuous Casting.
- 2) AR: As Rolled; TM: Thermo-Mechanical rolling