



**CERTIFICATE OF APPROVAL OF MANUFACTURERS OF
MATERIALS**
No. FAB046214WS

This is to certify that the manufacture of the product identified below is in compliance with the applicable requirements of the RINA Rules for the Approval of Manufacturers of Materials.

<i>Description</i>	Normal strength and higher strength hull steel plates
<i>Type</i>	Coiled and decoiled steel plate A/B/D/AH32/DH32/AH36/DH36
<i>Manufacturer</i>	SHANXI TAIGANG STAINLESS STEEL CO., LTD
<i>Place of manufacture</i>	NO2, JIANCAOPING STREET, TAIYUAN, SHANXI 030003 SHANXI CHINA
<i>Reference standards</i>	RINA Rules for the approval of manufacturers of materials

Issued in **SHANGHAI** on **April 12, 2014**. *This Certificate is valid until* **February 15, 2019**



 **RINA**
RINA Services S.p.A.
Hong Gu

This certificate consists of this page and 1 enclosure

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Coiled and decoiled steel plate A/B/D/AH32/DH32/AH36/DH36

APPROVAL CONDITIONS

- Steel making process: Basic Oxygen Converter, Ladle Furnace
- Casting process: continuous casting
- Deoxidation practice, condition of supply and thickness:

Steel grade	Deoxidation practice and fine grained element	Delivery condition and max. thickness
A,B,D	Killed, fine grained Al	t≤24, CR
AH32, DH32, AH36, DH36	Killed, fine grained Nb+V+Ti	t≤24, CR

CR: Controlled Rolling

Note: Above decoiled steel plates are limited to be used only above upper deck.

Survey conditions:

The plates are to be in compliance in all respects with the relevant RINA rules and are to be tested accordingly.

General conditions for the approval

- The approval is granted on condition that the RINA Rules for the approval, manufacture, testing and certification of materials are complied with in all respects.
- RINA is to be notified of any change of materials, manufacturing process, quality control routines that may affect the validity of this certificate.



SHANGHAI April 12, 2014